

Smooth Muscle Actin Monoclonal Antibody (1A4)

Catalog Number **MA1-06110**

Product data sheet

Details		Species Reactivity	
Size	50 µg	Species reactivity	Many
Host/Isotope	Mouse / IgG2a	Published species	Dog, Rabbit, Rat, Pig, Non-human primate, Bovine, Sheep, Cat, Human, Mouse, Not Applicable, Rhesus monkey
Class	Monoclonal		
Type	Antibody		
Clone	1A4		
Immunogen	Peptide corresponding to residues E (1) E E D S T A L V C(10) of alpha-smooth muscle actin with an acetylated n-terminus coupled to KLH.		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	purified		
Storage buffer	PBS		
Contains	0.09% sodium azide		
Storage Conditions	4°C or -20°C if preferred		
		Tested Applications	
			Dilution *
		Immunocytochemistry (ICC)	1:100-1:250
		Immunofluorescence (IF)	1:10-1:100
		Immunohistochemistry (Frozen) (IHC (F))	1:10-1:100
		Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100
		Immunomicroscopy (IM)	Assay dependent
		Western Blot (WB)	1:100-1:500
		Published Applications	
		Western Blot (WB)	See 17 publications below
		Immunohistochemistry (Paraffin) (IHC (P))	See 6 publications below
		Immunohistochemistry (IHC)	See 178 publications below
		Miscellaneous PubMed (MISC)	See 2 publications below
		Immunohistochemistry (Frozen) (IHC (F))	See 1 publications below
		Immunocytochemistry (ICC)	See 26 publications below
		Flow Cytometry (Flow)	See 3 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

MA1-06110 detects α -smooth muscle actin (α -SM1) in human, rat, goat, porcine, non-human primate, quail, ovine, xenopus, monkey and chicken samples. Since the epitope recognized by MA1-06110 is highly conserved, it can also cross-react with protochordates, lower craniates and mammals other than those specifically listed. MA1-06110 has successfully been used in immunocytochemistry, immunomicroscopy, immunohistochemistry, and Western blotting procedures. The MA1-06110 immunogen is a peptide corresponding to residues E(1) E E D S T A L V C(10) of alpha-smooth muscle actin with an acetylated n-terminus coupled to KLH. MA1-06110 specifically recognizes the epitope Ac-EEED on alpha-smooth muscle actin.

Background/Target Information

Smooth Muscle Actin belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actin being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. In particular, smooth muscle actin is an alpha actin that is found in skeletal muscle. Actin exists as a ubiquitous protein involved with filament formation that make up large portions of the cytoskeleton. Actin filaments interact with myosin to assist in muscle contraction as well as aiding in cell motility and cytokinesis. Smooth muscle actin is found on smooth muscle vessel walls, gut wall, myometrium, myoepithelial cells in breast and salivary glands. Defects in the smooth muscle actin gene cause aortic aneurysm familial thoracic type 6. Actin isoforms differ slightly in their N-

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terminus and the sequences of each are perfectly conserved in higher vertebrates. Alpha-smooth muscle actin is abundant in vascular and visceral smooth muscle cells. In addition, it has also been shown that smooth muscle actin appear in stress fibers of fibroblastic cells during pathological situations involving contractile phenomena such as wound healing and fibrocontractive diseases. Multiple alternatively spliced variants of smooth muscle actin have been identified.

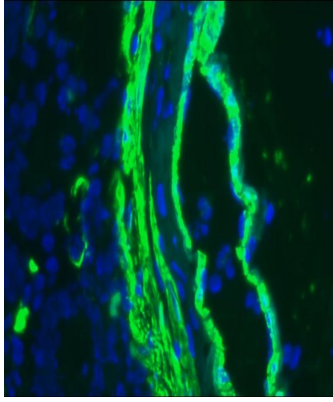
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Product Images For Smooth Muscle Actin Monoclonal Antibody (1A4)



Smooth Muscle Actin Antibody (MA1-06110) in IF

Immunofluorescent analysis of human small intestine using Smooth Muscle alpha Actin monoclonal antibody (Product # MA1-06110) (1:1000).

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PubMed References For Smooth Muscle Actin Monoclonal Antibody (1A4)

17 Western Blot References

Species / Dilution	Summary
Mouse / Not Cited	<p>MA1-06110 was used in western blot to study a novel retinoic acid derivative that antagonizes TGF-beta induced liver fibrosis</p> <p>Biochemical and biophysical research communications (Jan 2008; 365: 484) "Antagonizing TGF-beta induced liver fibrosis by a retinoic acid derivative through regulation of ROS and calcium influx." Author(s):Yang KL,Chang WT,Chuang CC,Hung KC,Li EI PubMed Article URL:http://dx.doi.org/10.1016/j.bbrc.2007.10.203</p>
Human / Not Cited	<p>MA106110 was used in western blot to test if exogenous transfer of unphosphorylated phosphatase and tensin homologue deleted from chromosome 10 leads to reduce transforming growth factor beta-induced extracellular matrix expression in both epithelial cells and fibroblasts</p> <p>Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society (Jan 2017; 25: 86) "Exogenous induction of unphosphorylated PTEN reduces TGF-induced extracellular matrix expressions in lung fibroblasts." Author(s):Kimura M,Hashimoto N,Kusunose M,Aoyama D,Sakamoto K,Miyazaki S,Ando A,Omote N,Imaizumi K,Kawabe T, Hasegawa Y PubMed Article URL:http://dx.doi.org/10.1111/wrr.12506</p>
Human / Not Cited	<p>MA1-06110 was used in western blot to study the ex vivo reversal of in vivo transdifferentiation of mesothelial cells</p> <p>Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association (Oct 2006; 21: 2943) "Ex vivo reversal of in vivo transdifferentiation in mesothelial cells grown from peritoneal dialysate effluents." Author(s):Vargha R,Endemann M,Kratochwill K,Riesenhuber A,Wick N,Krachler AM,Malaga-Dieguez L,Aufricht C PubMed Article URL:http://dx.doi.org/10.1093/ndt/gfl355</p>
Mouse / Not Cited	<p>MA1-06110 was used in western blot to study the ability of vaccination against PDGF-D to protect against hepatic fibrosis in a rat model of acute liver injury</p> <p>The Journal of pharmacology and experimental therapeutics (Sep 2012; 342: 835) "Vaccination with platelet-derived growth factor B kinoids inhibits CCl-induced hepatic fibrosis in mice." Author(s):Hao ZM,Fan XB,Li S,Lv YF,Su HQ,Jiang HP,Li HH PubMed Article URL:http://dx.doi.org/10.1124/jpet.112.194357</p>
Mouse / 1:2000	<p>MA1-06110 was used in western blot to study the mechanism by which adenoviral overexpression of PGC-1alpha rescues dystrophic skeletal muscle</p> <p>PloS one (May 2012; 7: null) "Rescue of dystrophic skeletal muscle by PGC-1 involves a fast to slow fiber type shift in the mdx mouse." Author(s):Selsby JT,Morine KJ,Pendrak K,Barton ER,Sweeney HL PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0030063</p>
Human / Not Cited	<p>MA1-06110 was used in western blot to study hypermethylation of the progesterone receptor isoform B promoter in adenomyosis and the effects of a HDAC inhibitor and a demethylating agent</p> <p>Reproductive sciences (Thousand Oaks, Calif.) (Nov 2010; 17: 995) "Promoter hypermethylation of progesterone receptor isoform B (PR-B) in adenomyosis and its rectification by a histone deacetylase inhibitor and a demethylation agent." Author(s):Guo SW PubMed Article URL:http://dx.doi.org/10.1177/1933719110377118</p>
Mouse / Not Cited	<p>MA1-06110 was used in western blot to study VEGF expression, localization, and function in pituitary hyperplasia of dopamine D2 receptor-knockout female mice</p> <p>Endocrinology (Jul 2005; 146: 2952) "Increased pituitary vascular endothelial growth factor-a in dopaminergic D2 receptor knockout female mice." Author(s):Cristina C,Díaz-Torga G,Baldi A,Góngora A,Rubinstein M,Low MJ,Becú-Villalobos D PubMed Article URL:http://dx.doi.org/10.1210/en.2004-1445</p>

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	MA1-06110 was used in western blot to study the synergistic role of Wnt and retinoic acid in the overexpression of the retinoic acid-responsive gene Stra6 in human cancers
Mouse / 1 ug/ml	Cancer research (May 2001; 61: 4197) "Overexpression of the retinoic acid-responsive gene Stra6 in human cancers and its synergistic induction by Wnt-1 and retinoic acid." Author(s):Szeto W,Jiang W,Tice DA,Rubinfeld B,Hollingshead PG,Fong SE,Dugger DL,Pham T,Yansura DG,Wong TA,Grimaldi JC,Corpuz RT,Singh JS,Frantz GD,Devaux B,Crowley CW,Schwall RH,Eberhard DA,Rastelli L,Polakis P,Pennica D PubMed Article URL: http://dx.doi.org/ null
Human / 1:100	MA1-06110 was used in western blot to study the tumorigenesis and drug susceptibility of three new canine mammary tumor cell lines Research in veterinary science (Apr 2010; 88: 285) "Assessment of the tumorigenesis and drug susceptibility of three new canine mammary tumor cell lines." Author(s):Chang CY,Chiou PP,Chen WJ,Li YH,Yiu JC,Cheng YH,Chen SD,Lin CT,Lai YS PubMed Article URL: http://dx.doi.org/10.1016/j.rvsc.2009.08.006
Pig / 1:500	MA1-06110 was used in western blot to study the role of msad3 signaling in epithelial-mesenchymal transition of lens epithelium during wound healing The American journal of pathology (Feb 2004; 164: 651) "Smad3 signaling is required for epithelial-mesenchymal transition of lens epithelium after injury." Author(s):Saika S,Kono-Saika S,Ohnishi Y,Sato M,Muragaki Y,Ooshima A,Flanders KC,Yoo J,Anzano M,Liu CY,Kao WW,Roberts AB PubMed Article URL: http://dx.doi.org/10.1016/S0002-9440(10)63153-7
Human / Not Cited	MA1-06110 was used in western blot to study the mechanism by which Ginkgo biloba extract inhibits endotoxin-induced human aortic smooth muscle cell proliferation Journal of agricultural and food chemistry (Mar 2007; 55: 1977) "Ginkgo biloba extract inhibits endotoxin-induced human aortic smooth muscle cell proliferation via suppression of toll-like receptor 4 expression and NADPH oxidase activation." Author(s):Lin FY,Chen YH,Chen YL,Wu TC,Li CY,Chen JW,Lin SJ PubMed Article URL: http://dx.doi.org/10.1021/jf062945r
Mouse / Not Cited	MA1-06110 was used in western blot to study the ability of vaccination against TGF-beta1 to protect against hepatic fibrosis in a liver injury model PloS one (Oct 2014; 8: null) "Attenuation of CCl4-induced hepatic fibrosis in mice by vaccinating against TGF-1." Author(s):Fan X,Zhang Q,Li S,Lv Y,Su H,Jiang H,Hao Z PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0082190
Human / Not Cited	MA1-06110 was used in western blot to study the role of MAPK/Erk signaling in the mechanism by which asbestos exposure induces plasticity in alveolar epithelial cells Journal of cellular biochemistry (Jul 2012; 113: 2234) "Asbestos exposure induces alveolar epithelial cell plasticity through MAPK/Erk signaling." Author(s):Tamminen JA,Myllärniemi M,Hyytiäinen M,Keski-Oja J,Koli K PubMed Article URL: http://dx.doi.org/10.1002/jcb.24094
Human / Not Cited	MA1-06110 was used in western blot to study the ability Chlamydia pneumoniae GroEL1 to induce LOX-1 expression in endothelial cells and its effect on atherogenesis in hypercholesterolemic rabbits Journal of immunology (Baltimore, Md. : 1950) (Apr 2011; 186: 4405) "GroEL1, a heat shock protein 60 of Chlamydia pneumoniae, induces lectin-like oxidized low-density lipoprotein receptor 1 expression in endothelial cells and enhances atherogenesis in hypercholesterolemic rabbits." Author(s):Lin FY,Lin YW,Huang CY,Chang YJ,Tsao NW,Chang NC,Ou KL,Chen TL,Shih CM,Chen YH PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1003116
Mouse / Not Cited	MA1-06110 was used in western blot to study the mechanism by which germline Brca1 mutation promotes luminal-to-basal mammary tumor transformation Oncogene (May 2013; 32: 2715) "Germline mutation of Brca1 alters the fate of mammary luminal cells and causes luminal-to-basal mammary tumor transformation." Author(s):Bai F,Smith MD,Chan HL,Pei XH PubMed Article URL: http://dx.doi.org/10.1038/onc.2012.293

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MA1-06110 was used in western blot to study the role of HIF-1 in the development of fibrosis in mice in response to hypoxia

The Journal of clinical investigation (Dec 2007; 117: 3810)

"Hypoxia promotes fibrogenesis in vivo via HIF-1 stimulation of epithelial-to-mesenchymal transition."

Author(s):Higgins DF, Kimura K, Bernhardt WM, Shrimanker N, Akai Y, Hohenstein B, Saito Y, Johnson RS, Kretzler M, Cohen CD, Eckardt KU, Iwano M, Haase VH

PubMed Article URL:<http://dx.doi.org/10.1172/JCI30487>

MA1-06110 was used in western blot to study the role of ERM/ETV5 during myometrial infiltration in endometrial cancer

Cancer research (Jul 2007; 67: 6753)

"ERM/ETV5 up-regulation plays a role during myometrial infiltration through matrix metalloproteinase-2 activation in endometrial cancer."

Author(s):Monge M, Colas E, Doll A, Gonzalez M, Gil-Moreno A, Planaguma J, Quiles M, Arbos MA, Garcia A, Castellvi J, Llaurado M, Rigau M, Alazzouzi H, Xercavins J, Alameda F, Reventos J, Abal M

PubMed Article URL:<http://dx.doi.org/10.1158/0008-5472.CAN-06-4487>

Mouse / 1:500

Human / 1:400

6 Immunohistochemistry (Paraffin) References

Species / Dilution	Summary
Not Applicable / Not Cited	<p>MA1-06110 was used in immunohistochemistry - paraffin section to study human lacrimal epithelium and histatin-1 expression</p> <p>PloS one (Jul 2016; 11: null)</p> <p>"Histatin-1 Expression in Human Lacrimal Epithelium."</p> <p>Author(s):Shah D, Ali M, Pasha Z, Jaboori AJ, Jassim SH, Jain S, Aakalu VK</p> <p>PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0148018</p>
Human / Not Cited	<p>MA106110 was used in immunohistochemistry - paraffin section to characterize alterations in fibroblast populations in the skin of patients with systemic sclerosis</p> <p>The American journal of pathology (Oct 2016; 186: 2650)</p> <p>"Altered Dermal Fibroblasts in Systemic Sclerosis Display Podoplanin and CD90."</p> <p>Author(s):Nazari B, Rice LM, Stifano G, Barron AM, Wang YM, Korndorf T, Lee J, Bhawan J, Lafyatis R, Browning JL</p> <p>PubMed Article URL:http://dx.doi.org/10.1016/j.ajpath.2016.06.020</p>
Rat / 1:5000	<p>MA1-06110 was used in immunohistochemistry - paraffin section to study the epithelial and stromal alterations in prostate following cypermethrin administration in adult albino rats</p> <p>Tissue and cell (Aug 2015; 47: 366)</p> <p>"Epithelial and stromal alterations in prostate after cypermethrin administration in adult albino rats (histological and biochemical study)."</p> <p>Author(s):Hashem HE, Abd El-Haleem MR, Abass MA</p> <p>PubMed Article URL:http://dx.doi.org/10.1016/j.tice.2015.04.007</p>
Rat / 1:200	<p>MA1-06110 was used in immunohistochemistry - paraffin section to investigate the role of cannabinoid receptor type 2 (CB2R) during skeletal muscle regeneration</p> <p>Histology and histopathology (Jun 2015; 30: 737)</p> <p>"Beneficial effects of cannabinoid receptor type 2 (CB2R) in injured skeletal muscle post-contusion."</p> <p>Author(s):Yu T, Wang X, Zhao R, Zheng J, Li L, Ma W, Zhang S, Guan D</p> <p>PubMed Article URL:http://dx.doi.org/10.14670/HH-30.737</p>
Human / Not Cited	<p>MA1-06110 was used in immunohistochemistry - paraffin section to characterize stroma cells and ductal epithelium comparing chronic pancreatitis and pancreatic ductal adenocarcinoma</p> <p>PloS one (Jun 2015; 9: null)</p> <p>"Comparative characterization of stroma cells and ductal epithelium in chronic pancreatitis and pancreatic ductal adenocarcinoma."</p> <p>Author(s):Helm O, Mennrich R, Petrick D, Goebel L, Freitag-Wolf S, Röder C, Kalthoff H, Röcken C, Sipos B, Kabelitz D, Schäfer H, Oberg HH, Wesch D, Sebens S</p> <p>PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0094357</p>
Not Applicable / 34 ng/ml	<p>MA1-06110 was used in immunohistochemistry - paraffin section to report that disruption of the mouse Par3 gene results in midgestational embryonic lethality with defective epicardial development</p> <p>Development (Cambridge, England) (Apr 2006; 133: 1389)</p> <p>"PAR3 is essential for cyst-mediated epicardial development by establishing apical cortical domains."</p> <p>Author(s):Hirose T, Karasawa M, Sugitani Y, Fujisawa M, Akimoto K, Ohno S, Noda T</p> <p>PubMed Article URL:http://dx.doi.org/10.1242/dev.02294</p>

178 Immunohistochemistry References

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Species / Dilution	Summary
Human / Not Cited	<p>MA1-06110 was used in immunohistochemistry to report on a case of myointimoma of the glans penis</p> <p>Pathology international (Mar 2007; 57: 158) "Myointimoma of the glans penis." Author(s):Vardar E,Gunlusoy B,Arslan M,Kececi S PubMed Article URL:http://dx.doi.org/10.1111/j.1440-1827.2006.02074.x</p>
Mouse / 1:100	<p>MA1-06110 was used in immunohistochemistry to investigate the influence of PPARgamma on wound healing in mice</p> <p>American journal of physiology. Cell physiology (Jul 2007; 293: C75) "Effect of overexpression of PPARgamma on the healing process of corneal alkali burn in mice." Author(s):Saika S,Yamanaka O,Okada Y,Miyamoto T,Kitano A,Flanders KC,Ohnishi Y,Nakajima Y,Kao WW,Ikeda K PubMed Article URL:http://dx.doi.org/10.1152/ajpcell.00332.2006</p>
Human / 1:200	<p>MA1-06110 was used in immunohistochemistry to characterize gastrointestinal stromal tumors</p> <p>Romanian journal of morphology and embryology = Revue roumaine de morphologie et embryologie (Sep 2011; 52: 555) "Histopathological and immunohistochemical features of gastrointestinal stromal tumors." Author(s):Fülöp E,Marcu S,Borda A,Moldovan C,Fülöp EF,Loghin A,Pávai Z PubMed Article URL:http://dx.doi.org/null</p>
Human / 1:2000	<p>MA1-06110 was used in immunohistochemistry to investigate the characteristics of fibrosis in patients with alcoholic and viral chronic hepatitis</p> <p>Romanian journal of morphology and embryology = Revue roumaine de morphologie et embryologie (Nov 2010; 51: 265) "Immunohistochemical comparative study of fibrosis and biliary ductular reaction in alcoholic and viral chronic hepatitis." Author(s):Egyed-Zsigmond I,Jung I,Egyed-Zsigmond I,Marion G,Gurzu S,Mezei T PubMed Article URL:http://dx.doi.org/null</p>
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Rabbit / Not Cited	Journal of oral and maxillofacial surgery : official journal of the American Association of Oral and Maxillofacial Surgeons (Jul 2014; 72: 1407) "Use of platelet-rich plasma solution applied with composite chondrocutaneous graft technique: an experimental study in rabbit model." Author(s):Sevim KZ,Yazar M,Irmak F,Tekkein MS,Yildiz K,Sirvan SS PubMed Article URL: http://dx.doi.org/10.1016/j.joms.2014.01.001
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Human / Not Cited	Acta biomaterialia (Sep 2008; 4: 1161) "Influence of hydrogel mechanical properties and mesh size on vocal fold fibroblast extracellular matrix production and phenotype." Author(s):Liao H,Munoz-Pinto D,Qu X,Hou Y,Grunlan MA,Hahn MS PubMed Article URL: http://dx.doi.org/10.1016/j.actbio.2008.04.013
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Human / Not Cited	Virchows Archiv : an international journal of pathology (May 2005; 446: 546) "Interdigitating dendritic cell tumor with breast and cervical lymph-node involvement: a case report and review of the literature." Author(s):Uluolu O,Akyürek N,Uner A,Cokun U,Ozdemir A,Gökçora N PubMed Article URL: http://dx.doi.org/10.1007/s00428-005-1209-3
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Human / Not Cited	MA1-06110 was used in immunohistochemistry to report on a case of rhabdomyosarcoma arising in a mature cystic teratoma with contralateral serous carcinoma International journal of gynecological pathology : official journal of the International Society of Gynecological Pathologists (Jul 2009; 28: 372) "Rhabdomyosarcoma arising in a mature cystic teratoma with contralateral serous carcinoma: case report and review of the literature." Author(s):Kefeli M,Kandemir B,Akpolat I,Yildirim A,Kokcu A PubMed Article URL: http://dx.doi.org/10.1097/PGP.0b013e3181929269
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Rat / Not Cited	MA1-06110 was used in immunohistochemistry to study the potential mechanisms by which gonko biloba extract reverses CCI4-induced liver injury in a mouse model World journal of gastroenterology (Apr 2004; 10: 1037) "Ginkgo biloba extract reverses CCI4-induced liver fibrosis in rats." Author(s):Luo YJ,Yu JP,Shi ZH,Wang L PubMed Article URL: http://dx.doi.org/null
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Rat / 1:1000	MA1-06110 was used in immunohistochemistry to study the role of lipid peroxidation products in endothelin-1 and O2-mediated pulmonary hypertension in neonatal rats Pediatric research (Sep 2000; 48: 289) "Endothelin-1 and O2-mediated pulmonary hypertension in neonatal rats: a role for products of lipid peroxidation." Author(s):Jankov RP,Luo X,Cabacungan J,Belcastro R,Frndova H,Lye SJ,Tanswell AK PubMed Article URL: http://dx.doi.org/10.1203/00006450-200009000-00005
Human / Not Cited	MA1-06110 was used in immunohistochemistry to study anterior vaginal wall prolapse Neurourology and urodynamics (Mar 2010; 29: 458) "Neuromuscular morphometry of the vaginal wall in women with anterior vaginal wall prolapse." Author(s):Inal HA,Kaplan PB,Usta U,Tatekin E,Aybatli A,Tokuc B PubMed Article URL: http://dx.doi.org/10.1002/nau.20779

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	MA1-06110 was used in immunohistochemistry to develop a hypothesis of Kaposi sarcoma histogenesis based on a case and literature review
Human / 1:600	<p>PLoS one (Apr 2014; 8: null)</p> <p>"Mesenchymal-to-endothelial transition in Kaposi sarcoma: a histogenetic hypothesis based on a case series and literature review."</p> <p>Author(s):Gurzu S,Ciortea D,Munteanu T,Kezdi-Zaharia I,Jung I</p> <p>PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0071530</p>
Rabbit / 1:300	<p>Urology (Feb 2006; 67: 431)</p> <p>"Long-term effect of experimental hypercholesterolemia on cavernosal tissues."</p> <p>Author(s):Karaboga R,Kilic O,Yaman O,Percinel S,Anafarta K</p> <p>PubMed Article URL:http://dx.doi.org/10.1016/j.urology.2005.08.049</p>
Rat / 1:100	<p>Vascular pharmacology (Dec 2006; 45: 358)</p> <p>"2-Methoxyestradiol mediates the protective effects of estradiol in monocrotaline-induced pulmonary hypertension."</p> <p>Author(s):Tofovic SP,Zhang X,Jackson EK,Dacic S,Petrusevska G</p> <p>PubMed Article URL:http://dx.doi.org/10.1016/j.vph.2006.05.007</p>
Rat / 1:800	<p>Langenbeck's archives of surgery (Jan 2011; 396: 115)</p> <p>"Mesenchymal stem cells improve the healing of ischemic colonic anastomoses (experimental study)."</p> <p>Author(s):Adas G,Arikan S,Karatepe O,Kemik O,Ayhan S,Karaoz E,Kamali G,Eryasar B,Ustek D</p> <p>PubMed Article URL:http://dx.doi.org/10.1007/s00423-010-0717-z</p>
Human / 2 ug/ml	<p>MA1-06110 was used in immunohistochemistry to study the ability of human bone marrow progenitor cells to create vascular structures within 3D fibrin matrices</p> <p>Differentiation; research in biological diversity (Sep 2008; 76: 772)</p> <p>"Vascular morphogenesis by adult bone marrow progenitor cells in three-dimensional fibrin matrices."</p> <p>Author(s):Rüger BM,Breuss J,Holleman D,Yanagida G,Fischer MB,Mosberger I,Chott A,Lang I,Davis PF,Höcker P,Dettke M</p> <p>PubMed Article URL:http://dx.doi.org/10.1111/j.1432-0436.2007.00259.x</p>
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Rat / 1:100	<p>MA1-06110 was used in immunohistochemistry to study the time-course and cellular localization of alpha7nAChR expression in rat skeletal muscle following contusion injury</p> <p>International journal of legal medicine (Sep 2014; 128: 779)</p> <p>"The time-dependent expression of 7nAChR during skeletal muscle wound healing in rats."</p> <p>Author(s):Fan YY,Zhang ST,Yu LS,Ye GH,Lin KZ,Wu SZ,Dong MW,Han JG,Feng XP,Li XB</p> <p>PubMed Article URL:http://dx.doi.org/10.1007/s00414-014-1001-5</p>
Rat / 1:50	<p>MA1-06110 was used in immunohistochemistry to study the ability of Urtica dioica to protect against liver damage in a rat bile duct ligation model</p> <p>Toxicology and industrial health (Oct 2013; 29: 838)</p> <p>"Protective effect of Urtica dioica on liver damage induced by biliary obstruction in rats."</p> <p>Author(s):Oguz S,Kanter M,Erboga M,Ibis C</p> <p>PubMed Article URL:http://dx.doi.org/10.1177/0748233712445045</p>
Human / Not Cited	<p>MA1-06110 was used in immunohistochemistry to report a clinical case of solitary fibrous tumor of soft tissue</p> <p>Medical molecular morphology (Mar 2010; 43: 60)</p> <p>"Solitary fibrous tumor of soft tissue: a case report and immunohistochemical study."</p> <p>Author(s):Yuri T,Kanematsu S,Lei YC,Kuwata M,Oishi M,Tsubura A</p> <p>PubMed Article URL:http://dx.doi.org/10.1007/s00795-009-0451-1</p>

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Human / 1:100	<p>MA1-06110 was used in immunohistochemistry to study the implications for tissue engineering and regenerative medicine of the identification of a population of human adipose tissue stem cells with low telomerase that lack teratogenic activity</p> <p>Stem cells and development (Apr 2014; 23: 717) "Human adipose tissue possesses a unique population of pluripotent stem cells with nontumorigenic and low telomerase activities: potential implications in regenerative medicine." Author(s):Ogura F,Wakao S,Kuroda Y,Tsuchiyama K,Bagheri M,Heneidi S,Chazenbalk G,Aiba S,Dezawa M PubMed Article URL:http://dx.doi.org/10.1089/scd.2013.0473</p>
Mouse / 1:100	<p>MA1-06110 was used in immunohistochemistry to investigate the suppressive effect of PPAR gamma gene transfer on injury-induced conjunctiva scarring in mice</p> <p>Investigative ophthalmology and visual science (Jan 2009; 50: 187) "Suppression of injury-induced conjunctiva scarring by peroxisome proliferator-activated receptor gamma gene transfer in mice." Author(s):Yamanaka O,Miyazaki K,Kitano A,Saika S,Nakajima Y,Ikeda K PubMed Article URL:http://dx.doi.org/10.1167/iov.08-2282</p>
Human / 1:1000	<p>MA1-06110 was used in immunohistochemistry to study the role of fibroblast growth factors and FGFR-1 during vascular remodeling in COPD</p> <p>American journal of respiratory cell and molecular biology (Nov 2002; 27: 517) "Enhanced expression of fibroblast growth factors and receptor FGFR-1 during vascular remodeling in chronic obstructive pulmonary disease." Author(s):Kranenburg AR,De Boer WI, Van Krieken JH,Mooi WJ,Walters JE,Saxena PR,Sterk PJ,Sharma HS PubMed Article URL:http://dx.doi.org/10.1165/rcmb.4474</p>
Human / 1:800	<p>MA1-06110 was used in immunohistochemistry to study the beneficial effects of an angiotensin II type 1 receptor blocker on compensated alcoholic liver fibrosis in humans</p> <p>Liver international : official journal of the International Association for the Study of the Liver (Jul 2012; 32: 977) "Beneficial effects of candesartan, an angiotensin-blocking agent, on compensated alcoholic liver fibrosis - a randomized open-label controlled study." Author(s):Kim MY,Cho MY,Baik SK,Jeong PH,Suk KT,Jang YO,Yea CJ,Kim JW,Kim HS,Kwon SO,Yoo BS,Kim JY,Eom MS,Cha SH,Chang SJ PubMed Article URL:http://dx.doi.org/10.1111/j.1478-3231.2012.02774.x</p>
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Human / 1:150	<p>MA1-06110 was used in immunohistochemistry to report molecular and clinicopathologic features of urinary bladder inflammatory myofibroblastic tumor</p> <p>Genes, chromosomes and cancer (Oct 2003; 38: 187) "ALK-ATIC fusion in urinary bladder inflammatory myofibroblastic tumor." Author(s):Debiec-Rychter M,Marynen P,Hagemeijer A,Pauwels P PubMed Article URL:http://dx.doi.org/10.1002/gcc.10267</p>

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Rabbit / 1:200	Plastic and reconstructive surgery (Jul 2013; 132: 85) "The effect of platelet-rich plasma on flap survival in random extension of an axial pattern flap in rabbits." Author(s):Kim HY,Park JH,Han YS,Kim H PubMed Article URL: http://dx.doi.org/10.1097/PRS.0b013e318290f61b
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Rat / Not Cited	Transplant international : official journal of the European Society for Organ Transplantation (May 2011; 24: 514) "Epigallocatechin-3-gallate protects kidneys from ischemia reperfusion injury by HO-1 upregulation and inhibition of macrophage infiltration." Author(s):Kakuta Y,Okumi M,Isaka Y,Tsutahara K,Abe T,Yazawa K,Ichimaru N,Matsumura K,Hyon SH,Takahara S,Nonomura N PubMed Article URL: http://dx.doi.org/10.1111/j.1432-2277.2011.01224.x
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Species / Dilution	Summary
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Human / 1:1000	Diagnostic pathology (Oct 2015; 10: null) "Primary sclerosing epithelioid fibrosarcoma of kidney with variant histomorphologic features: report of 2 cases and review of the literature." Author(s):Ertoy Baydar D,Kosemehmetoglu K,Aydin O,Bridge JA,Buyukeren B,Aki FT PubMed Article URL: http://dx.doi.org/10.1186/s13000-015-0420-z

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Hepatology (Baltimore, Md.) (Aug 2015; 62: 452)

"A novel vascular pattern promotes metastasis of hepatocellular carcinoma in an epithelial-mesenchymal transition-independent manner."

Author(s):Fang JH,Zhou HC,Zhang C,Shang LR,Zhang L,Xu J,Zheng L,Yuan Y,Guo RP,Jia WH,Yun JP,Chen MS,Zhang Y,Zhuang SM

PubMed Article URL:<http://dx.doi.org/10.1002/hep.27760>

Human / 1:300

1 Immunohistochemistry (Frozen) References

Species / Dilution

Summary

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Not Applicable / 1:100

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Author(s):Naylor AJ,McGettrick HM,Maynard WD,May P,Barone F,Croft AP,Egginton S,Buckley CD
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Species / Dilution

Summary

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Human / Not Cited

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Mouse / 1:1

Bioscience, biotechnology, and biochemistry (May 2008; 72: 1242)

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Author(s):Miyabayashi T,Yamamoto M,Sato A,Sakano S,Takahashi Y
PubMed Article URL:<http://dx.doi.org/10.1271/bbb.70717>

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Human / 1:800

Histochemistry and cell biology (Jan 2010; 133: 95)

"Isolation and in vitro characterisation of dental pulp stem cells from natal teeth."

Author(s):Karaöz E,Doan BN,Aksoy A,Gacar G,Akyüz S,Ayhan S,Genç ZS,Yürüker S,Duruksu G,Demircan PC,Sarıbayaci AE
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Mouse / Not Cited

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Author(s):Sasaki M,Abe R,Fujita Y,Ando S,Inokuma D,Shimizu H
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Mouse / Not Cited

Journal of dermatological science (Oct 2007; 48: 43)

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Experimental neurology (Jun 2010; 223: 537)

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Histochemistry and cell biology (Nov 2009; 132: 533)

"Characterization of mesenchymal stem cells from rat bone marrow: ultrastructural properties, differentiation potential and immunophenotypic markers."

Author(s):Karaoz E,Aksoy A,Ayhan S,Sariboyaci AE,Kaymaz F,Kasap M

PubMed Article URL:<http://dx.doi.org/10.1007/s00418-009-0629-6>

Rhesus monkey / 1:400

Rat / 1:100

Mouse / Not Cited

Rat / Not Cited

Rat / 1:800

3 Flow Cytometry References

Species / Dilution

Summary

MA1-06110 was used in flow cytometry to study the contribution of bone marrow-derived cells to scar tissue cell populations following severe burn

Mouse / Not Cited

Burns : journal of the International Society for Burn Injuries (May 2009; 35: 356)

"Bone marrow-derived cells in the healing burn wound--more than just inflammation."

Author(s):Rea S,Giles NL,Webb S,Adcroft KF,Evill LM,Strickland DH,Wood FM,Fear MW

PubMed Article URL:<http://dx.doi.org/10.1016/j.burns.2008.07.011>

MA1-06110 was used in flow cytometry to study the contribution of transplanted of embryonic stem cell-derived vascular progenitor cells to adult neovascularization

Blood (Apr 2003; 101: 2675)

"Effective contribution of transplanted vascular progenitor cells derived from embryonic stem cells to adult neovascularization in proper differentiation stage."

Author(s):Yurugi-Kobayashi T,Itoh H,Yamashita J,Yamahara K,Hirai H,Kobayashi T,Ogawa M,Nishikawa S,Nishikawa S,Nakao K

PubMed Article URL:<http://dx.doi.org/10.1182/blood-2002-06-1877>

Mouse / Not Cited

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MA1-06110 was used in flow cytometry to develop a co-culture model from an invasive lobular carcinoma for the evaluation of therapeutic agents

Mouse / Not Cited

BMC cancer (Apr 2008; 8: null)

"A stable explant culture of HER2/neu invasive carcinoma supported by alpha-Smooth Muscle Actin expressing stromal cells to evaluate therapeutic agents."

Author(s):Piechocki MP

PubMed Article URL:<http://dx.doi.org/10.1186/1471-2407-8-119>

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