

Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP

Product Details	
Size	2 mL
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	HRP
Form	Lyophilized
Concentration	0.8 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.6, with 15mg/mL BSA, 50mM sucrose
Contains	no preservative
Storage Conditions	4° C
RRID	AB_228307

Applications	Tested Dilution	Publications
ELISA (ELISA)	1:10,000-1:25,000	3 Publications
Immunohistochemistry (IHC)	1:5,000-1:100,000	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	Assay Dependent	1 Publication
Immunoprecipitation (IP)	1:500-1:5,000	1 Publication
Western Blot (WB)	1:5,000-1:200,000	86 Publications
Immunocytochemistry (ICC)	-	2 Publications
Miscellaneous PubMed (Misc)	-	47 Publications

Product Specific Information

Product # 31430 has been successfully used in Western blot, IHC and IP applications.

Product # 31430 reacts with the heavy chains of mouse igg and with the light chains common to most mouse immunoglobulins, but does not react against non-immunoglobulin serum proteins. However, this antibody may cross-react with immunoglobulins from other species.

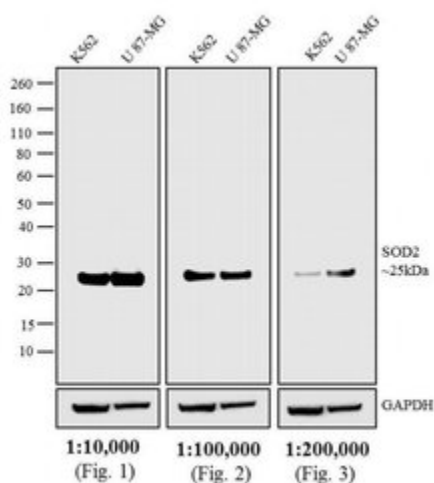
Store product at 4°C until opened. To extend the shelf-life of this product, add an equal volume of glycerol to make a final concentration of approximately 50% glycerol and store at -20°C.

Reconstitute with 2.0 mL of distilled water (0.8 mg/mL after restoration).

Product Images For Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP

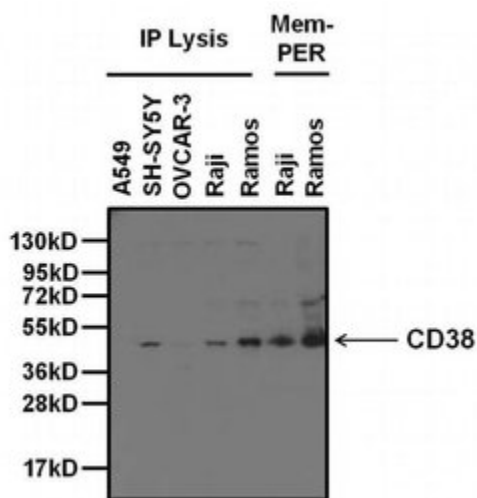
Mouse IgG (H+L) Secondary Antibody (31430) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of K-562 (Lane 1) and U87-MG (Lane 2). The blots were probed with Anti-SOD2 Mouse Monoclonal Antibody (Product # MA1-106, 0.25 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP conjugate (Product # 31430) at dilutions 1:5,000 (Fig. 1), 1:100,000 (Fig. 2) and 1:200,000 (Fig. 3). A 25 kDa band corresponding to SOD2 was observed. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary antibody after blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



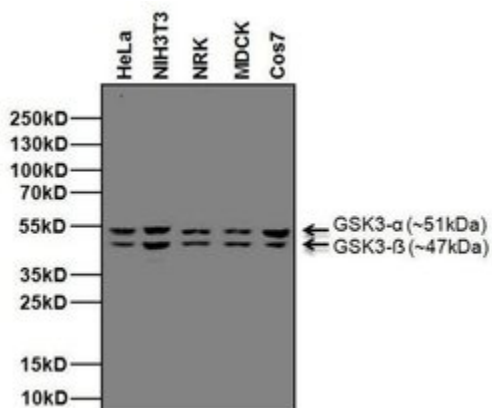
Mouse IgG (H+L) Secondary Antibody (31430) in WB

Western blot analysis of CD38 was performed by loading 50 µg of the indicated cell lysates prepared using IP Lysis Buffer (Product # 87788) or Mem-PER Plus Membrane Protein Extraction Kit (Product # 89842), and 10 µL of PageRuler Plus Prestained Protein Ladder (Product # 26619) per well onto a Novex 4-20% Tris-Glycine polyacrylamide gel (Product # WT4202BOX). Proteins were transferred to a nitrocellulose membrane (Product # 88014) using the Power Blotter (Product # 22834), and blocked with 5% milk in TBST for at least 1 hour at room temperature. CD38 was detected at ~45 kD using a CD38 monoclonal antibody (Product # MA1-182) at a dilution of 1:1000 in blocking buffer overnight at 4C on a rocking platform, followed by an HRP-conjugated goat anti-mouse IgG secondary antibody (Product # 31430) at a dilution of 1:40,000 for at least 30 minutes. Chemiluminescent detection was performed using SuperSignal West Dura (Product # 34076).



Mouse IgG (H+L) Secondary Antibody (31430) in WB

Western blot analysis of GSK-3 was performed by loading 20 µg of the indicated whole cell lysates and 5 µL of PageRuler Plus Prestained Protein Ladder (Product # 26619) per well onto a Novex 4-20% Tris-Glycine polyacrylamide gel (Product # WT4202BOX). Proteins were transferred to a nitrocellulose membrane using the G2 Blotter (Product # 62288), and blocked with 5% Milk in TBST for 1 hour at room temperature. GSK-3 (alpha and beta isoforms) was detected at ~51 kD and ~47 kD using a GSK-3 monoclonal antibody (Product # MA3-038) at a dilution of 1:1000 in 5% Milk in TBST overnight at 4C on a rocking platform, followed by a Goat anti-Mouse IgG Secondary Antibody, HRP conjugate (Product # 31430) at a dilution of 1:10,000 for at least 30 minutes at room temperature. Chemiluminescent detection was performed using SuperSignal Pico substrate (Product # 34078) and the myECL Imager (Product # 62236).



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Western Blot (86)

British journal of cancer

Identification of candidate circulating cisplatin-resistant biomarkers from epithelial ovarian carcinoma cell secretomes.

"31430 was used in western blot to perform a proteomic analysis of the epithelial ovarian cancer secretome to identify circulating biomarkers of cisplatin resistance"

Authors: Teng PN,Wang G,Hood BL,Conrads KA,Hamilton CA,Maxwell GL,Darcy KM,Conrads TP

Species
Not Applicable

Dilution
1:2000

Year
2014

Life sciences

Evaluation of the cardioliipin biosynthetic pathway and its interactions in the diabetic heart.

"31430 was used in western blot to study the effects of type 1 diabetes on the biosynthesis of cardioliipin and its interactions with mitochondrial inner membrane proteins"

Authors: Croston TL,Shepherd DL,Thapa D,Nichols CE,Lewis SE,Dabkowski ER,Jagannathan R,Baseler WA,Hollander JM

Species
Not Applicable

Dilution
Not Cited

Year
2013

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Immunohistochemistry (3)

Journal of visualized experiments : JoVE

Gene-environment interaction models to unmask susceptibility mechanisms in Parkinson's disease.

"31430 was used in immunohistochemistry to test if lipoxygenase contributes to Parkinson's disease pathogenesis"

Authors: Chou VP,Ko N,Holman TR,Manning-Bo AB

Species
Not Applicable

Dilution
Not Cited

Year
2014

PloS one

The use of sensitive chemical antibodies for diagnosis: detection of low levels of EpCAM in breast cancer.

"31430 was used in immunohistochemistry to study the use of novel RNA aptomers for the highly sensitive detection of EpCAM in breast cancer"

Authors: Shigdar S,Qian C,Lv L,Pu C,Li Y,Li L,Marappan M,Lin J,Wang L,Duan W

Species
Not Applicable

Dilution
1:500

Year
2013

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (P) (1)

ICC (2)

ELISA (3)

IP (1)

Misc (47)

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