

Product datasheet

Anti-CD44v6 antibody [VFF-7] ab30436

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Overview

Product name	Anti-CD44v6 antibody [VFF-7]
Description	Mouse monoclonal [VFF-7] to CD44v6
Host species	Mouse
Tested applications	Suitable for: Flow Cyt, IHC-Fr, IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	Fusion protein corresponding to Human CD44v6. Glutathione S Transferase (GST) fusion protein corresponding to the variable domains (v3 to v10) of human CD44. Database link: P16070
Epitope	This antibody specifically recognises an epitope encoded by exon v6 on the variant portion of human CD44.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	Preservative: 0.01% Thimerosal (merthiolate) Constituent: PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	VFF-7
Myeloma	P3x63-Ag8.653
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab30436** in the following tested applications.

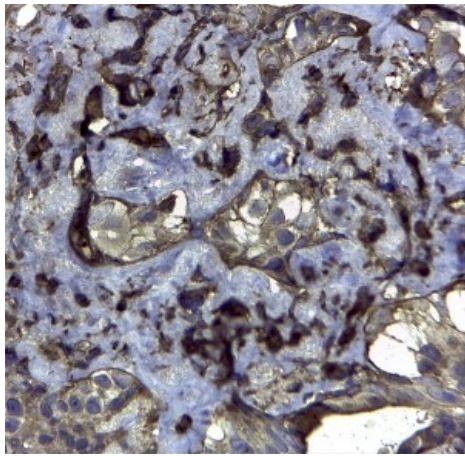
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		1/50 - 1/200. Use 10ul of the suggested working dilution to label 106 cells in 100ul.
ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.		
IHC-Fr		1/400 - 1/500.
IHC-P	★★★★☆	1/200.
WB		Use at an assay dependent concentration.

Target

Function	Receptor for hyaluronic acid (HA). Mediates cell-cell and cell-matrix interactions through its affinity for HA, and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in cell migration, tumor growth and progression. In cancer cells, may play an important role in invadopodia formation. Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. Altered expression or dysfunction causes numerous pathogenic phenotypes. Great protein heterogeneity due to numerous alternative splicing and post-translational modification events.
Tissue specificity	Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells.
Sequence similarities	Contains 1 Link domain.
Domain	The lectin-like LINK domain is responsible for hyaluronan binding.
Post-translational modifications	Proteolytically cleaved in the extracellular matrix by specific proteinases (possibly MMPs) in several cell lines and tumors. N- and O-glycosylated. O-glycosylation contains more-or-less-sulfated chondroitin sulfate glycans, whose number may affect the accessibility of specific proteinases to their cleavage site(s). It is uncertain if O-glycosylation occurs on Thr-637 or Thr-638. Phosphorylated; activation of PKC results in the dephosphorylation of Ser-706 (constitutive phosphorylation site), and the phosphorylation of Ser-672.
Cellular localization	Membrane. Colocalizes with actin in membrane protrusions at wounding edges.

Images



Immunoperoxidase staining of formalin fixed, paraffin embedded human breast cancer tissue with ab30436 at 1/200 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD44v6 antibody [VFF-7] (ab30436)

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