

Purified Mouse Anti Human CD44 Antibody (PTF0107)

CatalogNo: YF0126 **Recombinant** 

Key Features

Host Species

- Mouse

Reactivity

- Human

Applications

- IF,FC

Isotype

- Mouse IgG1/Kappa

Storage

Storage*

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Formulation

PBS, pH 7.4

Recommended Dilution Ratios

IF 1:200-1:1000

FC:1 µg per million cells in 100 µl volume. For optimal results, the reagent should be titrated according to each specific application

Basic Information

Clonality

Monoclonal

Clone Number

PTF0107

Immunogen Information

Immunogen

The specific immunogen used to produce this antibody is proprietary information.

Specificity

Endogenous

Target Information

Gene name	CD44 LHR MDU2 MDU3 MIC4		
Protein Name	CD44 antigen (CDw44) (Epican) (Extracellular matrix receptor III) (ECMR-III) (GP90 lymphocyte homing/adhesion receptor) (HUTCH-I) (Heparan sulfate proteoglycan) (Hermes antigen) (Hyaluronate receptor) (Phagocytic glycoprotein 1) (PGP-1) (Phagocytic glycoprotein I) (PGP-I) (CD antigen CD44)		
	Organism	Gene ID	UniProt ID
	Human	4072 ;	P16070 ;
	Mouse	17075 ;	Q99JW5 ;
Cellular Localization	Cell membrane ; Single-pass type I membrane protein . Cell projection , microvillus . Colocalizes with actin in membrane protrusions at wounding edges. Co-localizes with RDX , EZR and MSN in microvilli. Localizes to cholesterol-rich membrane-bound lipid raft domains. .		
Tissue specificity	Isoform 1 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells.		
Function	Alternative products:Additional isoforms seem to exist. Additional isoforms are produced by alternative splicing of 10 out of 19 exons within the extracellular domain. Additional diversity is generated through the utilization of internal splice donor and acceptor sites within 2 of the exons. A variation in the cytoplasmic domain was shown to result from the alternative splicing of 2 exons. Isoform CD44 is expected to be expressed in normal cells. Splice variants have been found in many tumor cell lines. Exons 5 , 6 , 7 , 8 , 9 , 10 , 11 , 13 , 14 and 19 are alternatively spliced. Experimental confirmation may be lacking for some isoforms ,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. 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. ,online information:Blood group antigen gene mutation database ,online information:CD44 entry ,polymorphism:CD44 is responsible for the Indian blood group system. The molecular basis of the In (A) =In1/In (B) =In2 blood group antigens is a single variation in position 46; In (B) , the most frequent allele , has Arg-46. ,PTM:N-glycosylated. ,PTM:O-glycosylated; contains more-or-less-sulfated chondroitin sulfate glycans , whose number may affect the accessibility of specific proteinases to their cleavage site (s) . ,PTM:Phosphorylated; activation of PKC results in the dephosphorylation of Ser-706 (constitutive phosphorylation site) , and the phosphorylation of Ser-672. ,PTM:Proteolytically cleaved in the extracellular matrix by specific proteinases (possibly MMPs) in several cell lines and tumors. ,similarity:Contains 1 Link domain. ,subunit:Interacts with HA , as well as other glycosaminoglycans , collagen , laminin , and fibronectin via its N-terminal segment. Interacts with ANK , the ERM proteins (VIL2 , RDX and MSN) , and NF2 via its C-terminal segment. ,tissue specificity:An epithelial isoform (CD44E) is expressed by cells of epithelium and highly expressed by carcinomas. An hematopoietic isoform (CD44H) is expressed by cells of mesodermal origin. Expression is repressed in neuroblastoma cells. ,		

| Validation Data



Human peripherhal blood lymphocytes stained with Mouse IgG1, κ isotype control or purified CD44 (PTF0107) , followed by anti-mouse IgGs-PE.

| Contact information

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Purified Mouse Anti Human CD44 Antibody (PTF0107)

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