



CD44 (PTR1298) Mouse mAb

Catalog No	YP-mAb-18900
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB, IHC, IF, ELISA
Gene Name	CD44 LHR MDU2 MDU3 MIC4
Immunogen	Synthesized peptide derived from human CD44 AA range: 100-200
Specificity	This antibody detects endogenous levels of CD44 protein.
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Mouse,IgG
Purification	Protein G
Dilution	IHC 1:200-1:1000; WB 1:500-2000; IF 1:100-500; ELISA 1:1000-5000 Note:For IHC,wesuggest antigen retrieval with TE buffer pH 9.0
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CD44 LHR MDU2 MDU3 MIC4;CD44;LHR antibody;BA-1 antibody;CD 44 antibody;CD44 antibody;CD44 antigen antibody;CD44 molecule;Indian blood group;antibody;CD44 molecule antibody;CD44_HUMAN antibody;CDw44 antibody;CDW44 antigen antibody;Cell surface glycoprotein CD44 antibody; chondroitin sulfate proteoglycan 8 antibody;CSPG8 antibody;ECMR-III antibody; Epican antibody;Extracellular matrix receptor III antibody;GP90 lymphocyte homing/adhesion receptor antibody;HCELL antibody;hematopoietic cell E- and L-selectin ligand antibody;Heparan sulfate proteoglycan antibody;Hermes antigen antibody;homing function and Indian blood group system antibody;HSA antibody; HUTCH-I antibody;HUTCH1 antibody;HUTCHI antibody;Hyaluronate receptor antibody;IN antibody;INLU-related p80 Glycoprotein antibody;MC56 antibody; MDU2 antibody;MDU3 antibody;MGC10468 antibody;MIC4 antibody;MUTCH I antibody;MUTCH1 antibody;PGP-1 antibody;PGP-I antibody;PGP1 antibody; Phagocytic glycoprotein 1 antibody;Phagocytic glycoprotein I antibody;Soluble CD44 antibody
Observed Band	81kD
Calculated Molecular Weight	81kD
Cell Pathway	
Tissue Specificity	



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. 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. Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. Altered expression or dysfunction causes numerous pathogenic phenotypes.

Background

The protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis.

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images