

Mouse anti-Human CD44 Monoclonal Antibody | anti-CD44 antibody

CD44 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48019	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

CD44; Monoclonal Antibody; CD44 antibody; CD44 antigen isoform 3 precursor; CD44 molecule (Indian blood group); MIC4; MDU2; MDU3; CD44 antigen (homing function and Indian blood group system); IN; MC56; Pgp1; CD44R; HCELL; CSPG8; hematopoietic cell E- and L-selectin ligand; chondroitin sulfate proteoglycan 8; anti-CD44 antibody

PRODUCT SPECIFICATIONS

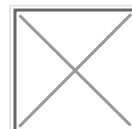
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, k
Clone Number	5C10
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	493
Applicable Applications for anti-CD44 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human CD44 (21-145aa) purified from E. coli
Clone Note	Anti-human CD44 mAb, clone 5C10, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human CD44 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of CD44 in HeLa cells. The cell was stained with ACD0826 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



WB (Western Blot)

The recombinant protein (200ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CD44 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Recombinant human CD44 protein

ADDITIONAL INFORMATION

Related Product Information for anti-CD44 antibody	CD44 is a broadly distributed transmembrane glycoprotein that plays a critical role in a variety of cellular behaviors, including adhesion, migration, invasion, and survival. CD44 mediates cell-cell and cell-matrix interactions in a large part through its affinity for hyaluronan (HA), a glycosaminoglycan constituent of extracellular matrices, but also potentially through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Variants of CD44 are expressed in tissues during development, including embryonic epithelia. known functions of CD44 are cellular adhesion (aggregation and migration), hyaluronate degradation, lymphocyte activation, lymph node homing, myelopoiesis and lymphopoiesis, angiogenesis, and release of cytokines. The functions of CD44 are principally dependant on cellular adhesion in one setting or another
Product Categories/Family for anti-CD44 antibody	Immunology
References	Cichy, J. and Pure, E. (2003) J.Cell Biol. 161, 839-843; Sneath RJ, Mangham DC (1998) Mol Pathol. 51 (4):191-200

NCBI AND UNIPROT INFORMATION

NCBI GI #	48255939
NCBI GeneID	960
NCBI Accession #	NP_001001390
NCBI GenBank Nucleotide #	NM_001001390.1
UniProt Accession #	P16070; O95370; P22511; Q04858; Q13419; Q13957; Q13958; Q13959; A5YRN9; B6EAT9; D3DR12; D3DR13
Molecular Weight	15,635 Da
NCBI Official Full Name	CD44 antigen isoform 3
NCBI Official Synonym Full Names	CD44 molecule (Indian blood group)
NCBI Official Symbol	CD44
NCBI Official Synonym Symbols	IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1; CDW44; CSPG8; HCELL; HUTCH-I; ECMR-III
NCBI Protein Information	CD44 antigen
UniProt Protein Name	CD44 antigen
UniProt Gene Name	CD44
UniProt Synonym Gene Names	LHR; MDU2; MDU3; MIC4; ECMR-III; PGP-1; PGP-I

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.