

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

Anti-CD44 Antibody, Mouse Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255540	Mouse	Human	Immunoprecipitation, Immunohistochemistry, ELISA, ELISA, Western Blot

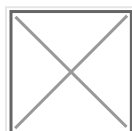
PRODUCT SYNONYMS

CD44; Monoclonal Antibody; Anti-CD44 Antibody; Mouse Monoclonal; CD44 Antibody; Mouse MAb; CD44 molecule (Indian blood group); Anti-CDW44 Antibody; Anti-CSPG8 Antibody; Anti-ECMR-III Antibody; Anti-HCELL Antibody; Anti-HUTCH-I Antibody; Anti-IN Antibody; Anti-LHR Antibody; Anti-MC56 Antibody; Anti-MDU2 Antibody; Anti-MDU3 Antibody; Anti-MIC4 Antibody; Anti-Pgp1 Antibody; anti-CD44 antibody

PRODUCT SPECIFICATIONS

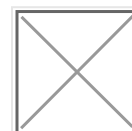
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	1C11H1
Specificity	Human CD44. No cross-reactivity in ELISA with Human DMP1, Human cell lysate (293 cell line)
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CD44 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, ELISA, WB (Western Blot)
Immunogen	Recombinant Human CD44 protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human CD44 (rh CD44). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

CD44 was immunoprecipitated using: Lane A: 0.5 mg Hela Whole Cell Lysate 1uL anti-CD44 mouse monoclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-CD44 mouse monoclonal antibody, at 1:500 dilution Secondary antibody: Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 82 kDa Observed band size :95 kDa



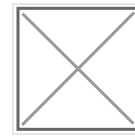
WB (Western Blot)

Anti-CD44 mouse monoclonal antibody at 1:500 dilution Lane A: Hela Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 82 kDa Observed band size: 98 kDa



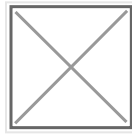
IHC (Immunohistochemistry)

Immunochemical staining of human CD44 in human bladder carcinoma with mouse monoclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections. The image showing membrane staining of epithelium cell.



IHC (Immunohistochemistry)

Immunochemical staining of human CD44 in human esophagus with mouse monoclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections. The image showing membrane staining of squamous epithelium cell.



IHC (Immunohistochemistry)

Immunochemical staining of human CD44 in human skin with mouse monoclonal antibody at 1:300 dilution, formalin-fixed paraffin embedded sections. The image showing membrane staining of squamous epithelium cell.

ADDITIONAL INFORMATION

Related Product Information for anti-CD44 antibody	CD44 is a type I transmembrane protein and a member of the cartilage link protein family. It is involved in cell-cell and cell-matrix interactions and signal transduction. Several CD44 ligands have been identified. The most extensively characterized ligand for CD44 is hyaluronan, a component of the extracellular matrix. CD44 protein is expressed on the majority of immune cells. The binding of CD44 to hyaluronan is induced on T lymphocytes after activation by antigen and on monocytes after stimulation by inflammatory agents. Under inflammatory conditions, CD44 on endothelial cells presents hyaluronan to CD44 on activated T lymphocytes and mediates a rolling interaction under flow conditions. Perturbations of the hyaluronan-CD44 interaction at the plasma membrane by various antagonists result in attenuation of receptor tyrosine kinase and transporter activities and inhibition of tumor progression in vivo. CD44 is known to interact with the ezrin family (ERM family) members and form a complex that plays diverse roles within both normal and abnormal cells, particularly cancer cells. CD44 and ezrin and their respective complex have properties suggesting that they may be important in the process of tumour-endothelium interactions, cell migrations, cell adhesion, tumour progression and metastasis.
References	Bajorath J. (2000) Molecular organization, structural features, and ligand binding characteristics of CD44, a highly variable cell surface glycoprotein with multiple functions. <i>Proteins</i> . 39(2): 103-11. Johnson P, et al. (2000) A role for the cell adhesion molecule CD44 and sulfation in leukocyte-endothelial cell adhesion during an inflammatory response? <i>Biochem Pharmacol</i> . 59(5): 455-65. Martin TA, et al. (2003) The role of the CD44/ezrin complex in cancer metastasis. <i>Crit Rev Oncol Hematol</i> . 46(2): 165-86. Toole BP, et al. (2008) Hyaluronan, CD44 and Emmprin: partners in cancer cell chemoresistance. <i>Drug Resist Updat</i> . 11(3): 110-21. Johnson P, et al. (2009) CD44 and its role in inflammation and inflammatory diseases. <i>Inflamm Allergy Drug Targets</i> . 8(3): 208-20.

NCBI AND UNIPROT INFORMATION

NCBI GI #	48255935
NCBI GeneID	960
NCBI Accession #	NP_000601.3
NCBI GenBank Nucleotide #	NM_000610.3
UniProt Accession #	P16070 ; O95370 ; P22511 ; Q04858 ; Q13419 ; Q13957 ; Q13958 ; Q13959 ; A5YRN9 ; B6EAT9 ; D3DR12 ; D3DR13
Molecular Weight	81,538 Da
NCBI Official Full Name	CD44 antigen isoform 1
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; epican; Hermes antigen; hyaluronate receptor; phagocytic glycoprotein 1; heparan sulfate proteoglycan; cell surface glycoprotein CD44; extracellular matrix receptor III; chondroitin sulfate proteoglycan 8; GP90 lymphocyte homing/adhesion rec
UniProt Protein Name	CD44 antigen
UniProt Gene Name	CD44
UniProt Synonym Gene Names	LHR; MDU2; MDU3; MIC4; ECMR-III; PGP-1; PGP-I
UniProt Entry Name	CD44_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd44-antibody-clone-1c11h1-immunoprecipitation-immunohistochemistry-western-blot-elisa/255540>