

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

CD44 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283577	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

CD44; Monoclonal Antibody; CD44 Antibody; 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; LHR; MDU2; MDU3; MIC4; anti-CD44 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a,K
Clone Number	Hermes-3
Specificity	This CD44 monoclonal antibody is generated from mouse immunized with CD44 recombinant protein.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Length	742
Applicable Applications for anti-CD44 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

CD44 Antibody flow cytometric analysis of HeLa cells (right histogram) compared to a negative control cell (left histogram). PE-conjugated goat-anti-mouse secondary antibodies were used for the analysis.



IF (Immunofluorescence)

CD44 antibody confocal immunofluorescent analysis with HeLa cell. 0.01 mg/ml primary antibody was followed by PE-conjugated goat anti-mouse IgG (whole molecule). PE emits red fluorescence. DAPI was used to stain the cell nuclear (blue).



IHC (Immunohistochemistry)

CD44 antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human esophagus carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CD44 antibody for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)

CD44 antibody western blot analysis in Hela cell line lysates (35ug/lane). This demonstrates the CD44 antibody detected the CD44 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-CD44 antibody	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.
Product Categories/Family for anti-CD44 antibody	Cancer ; Immunology ; Signal Transduction
References	da Cunha, C.B., et al. Lab. Invest. 90(11):1604-1614(2010) ?Somasunderam, A., et al. Biochemistry 49(42):9106-9112(2010) ?Wolny, P.M., et al. J. Biol. Chem. 285(39):30170-30180(2010) ?Ryckman, K.K., et al. PLoS ONE 5 (8), E12273 (2010) : ?Scartozzi, M., et al. Anal. Quant. Cytol. Histol. 31(6):417-423(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	48255935
NCBI GeneID	960
NCBI Accession #	NP_000601.3 ; NP_001001389.1 ; NP_001001390.1 ; NP_001001391.1 ; NP_001001392.1 ; NP_001189484.1 ; NP_001189485.1 ; NP_001189486.1
NCBI GenBank Nucleotide #	NM_000610.3
UniProt Accession #	P16070 ; O95370 ; P22511 ; Q04858 ; Q13419 ; Q13957 ; Q13958 ; Q13959 ; A5YRN9 ; B6EAT9 ; D3DR12 ; D3DR13
Molecular Weight	81538
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
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-hermes-3-flow-cytometry-immunofluorescence-immunohistochemistry-western-blot-elisa/283577>