

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

CD44 (Hyaluron Binding Region) M588 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71600	Mouse	Human	Immunoprecipitation, Immunocytochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

CD44; Monoclonal Antibody; CD44 (Hyaluron Binding Region) M588 Antibody; CD44 (Hyaluron Binding Region); CD044 H M588; anti-CD44 antibody

PRODUCT SPECIFICATIONS

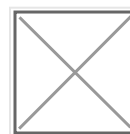
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M588
Specificity	Clone M588 detects 80-130kDa* bands corresponding to the molecular mass of CD44 on SDS-PAGE immunoblots of native MDA-MB-231, A431, and A549 cell lysates. The antibody also detects denatured CD44 but with lower affinity. In addition, Clone M588 binds the native form of a recombinant human CD44 protein that contains only the hyaluron binding region. The antibody can be used in multiple applications including western blot, immunocytochemical labeling, ELISA, and immunoprecipitation, as well as for detecting CD44 in live, unfixed cells.
Purity/Purification	Protein G chromatography
Form/Format	Mouse monoclonal antibody purified with protein G chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-CD44 antibody	IP (Immunoprecipitation), ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Clone M588 was generated from a proprietary antigen related to the hyaluron binding region of human CD44 from the MDA-MB-231 breast cancer cell line.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling of CD44 in paraformaldehyde fixed human MDA-MB-231 cells. The cells were labeled with mouse monoclonal anti-CD44 (clone M588). The antibody was detected using goat anti-mouse DyLight 594.



WB (Western Blot)

Western blot analysis of denatured (lanes 1 & 3) and native (lanes 2 & 4) human MDA-MB-231 whole cell lysates. The blots were probed with mouse monoclonal anti-CD44 (CM5881) at 1:1000 (lanes 1 & 2) or mouse monoclonal anti-CD44 (CM5911) at 1:1000 (lanes 3 & 4).

ADDITIONAL INFORMATION

Related Product Information for anti-CD44 antibody	Cell surface adhesion protein CD44 is a ubiquitously expressed type I transmembrane protein that has important functions related to cell-cell adhesion and extracellular matrix interactions. The transmembrane protein is post-translationally modified at multiple sites by glycosylation and phosphorylation. CD44 ligands include hyaluronic acid, collagens, laminins, osteopontin, serglycin, and fibronectin. CD44 has been implicated in inflammatory cell functions, as well as in tumor growth and metastasis. CD44 is overexpressed in many types of cancer; the interaction between CD44 and HER2 has been linked to an increase in ovarian carcinoma cell growth. CD44 interacts with ezrin, radixin, and moesin to link the actin cytoskeleton to the plasma membrane and the extracellular matrix. These interactions are critical for CD44 function in cell-cell adhesion and cell motility.
References	Cichy, J., et al. (2003) J Cell Biol. 161(5):839 Goodinson, S., et al. (1999) Mol Path. 52(4):189 Tsukita, S., et al. (1994) J Cell Biol. 126(2):391

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.