

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

CD44 (Extracellular region) M024 Antibody

CATALOG # AAA71580	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Immunocytochemistry, ELISA, Western Blot
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PRODUCT SYNONYMS

CD44; Monoclonal Antibody; CD44 (Extracellular region) M024 Antibody; CD44 (Extracellular region); CD044 E M024; anti-CD44 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	M024
Specificity	Clone M024 detects 80-130kDa* bands corresponding to the molecular mass of CD44 on SDS-PAGE immunoblots of native human MDA-MB-231, A549, MeWo, and A431 cell lysates. The antibody also detects denatured CD44 but with lower affinity. The antibody can be used for multiple applications including ELISA, western blot, immunocytochemical labeling and immunoprecipitation. In addition, the antibody labels live unfixed MeWo cells, so the antibody may be useful for isolating CD44+ cells and for CD44 functional assays.
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 M024 was generated from a proprietary antigen related to the extracellular region of human CD44 expressed in the MeWo melanoma cell line.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



Standard Curve (Sample)

Representative Standard Curve using mouse monoclonal anti-CD44 (CM0241) for ELISA capture of human recombinant CD44 extracellular region with His-tag. Capture was detected by using an anti-His-tag antibody followed by appropriate secondary antibody conjugated to HRP.



ICC (Immunocytochemistry)

Immunocytochemical labeling of CD44 in paraformaldehyde fixed human MeWo cells. The cells were labeled with mouse monoclonal anti-CD44 (clone M024). The antibody was detected using goat anti-mouse DyLight 594.



WB (Western Blot)

Western blot analysis of human A549 (lane 1), MDA-MB-231 (lane 2), and MeWo (lane 3) cell lysates, as well as human breast (lane 4), lung (lane 5), skin (lane 6), and brain (lane 7) tissue lysates. The blot was probed with mouse monoclonal anti-CD44 (CM0241) at 1:2000.

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. Ligands for CD44 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. Overexpression of CD44 has been observed in many types of cancer, and 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.