

Rabbit CD44 Polyclonal Antibody | anti-CD44 antibody

CD44 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322237	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

CD44; Polyclonal Antibody; CD44 Antibody; LHR; BA-1; CD 44; CD44 antigen; CD44 molecule (Indian blood group); CD44 molecule; CD44_HUMAN; CDw44; Cell surface glycoprotein CD44; chondroitin sulfate proteoglycan 8; CSPG8; ECMR-III; Epican; Extracellular matrix receptor III; GP90 lymphocyte homing/adhesion receptor; HCELL; hematopoietic cell E-and L-selectin ligand; Heparan sulfate proteoglycan; Hermes antigen; homing function and Indian blood group system; HSA; HUTCH-I; HUTCH1; Hyaluronate receptor; IN; INLU-related p80 Glycoprotein; MC56; MDU2; MDU3; MGC10468; MIC4; MUTCH1; PGP-1; PGP-I; PGP1; Phagocytic glycoprotein 1; Phagocytic glycoprotein I; Soluble CD44; anti-CD44 antibody

PRODUCT SPECIFICATIONS

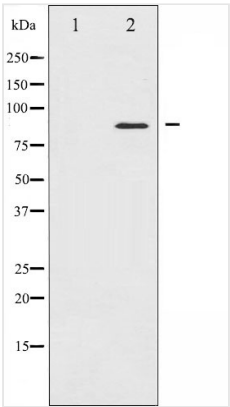
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CD44 antibody detects endogenous levels of total CD44
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	742
Applicable Applications for anti-CD44 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CD44
Subcellular Location	Membrane.
Tissue Specificity	Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (89%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (89%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA322237 staining NIH-3T3 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of CD44 expression in PMA treated NIH-3T3 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CD44 antibody

Description: 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).

Function: Receptor for hyaluronic acid (HA). Mediates cell-cell and cell-matrix interactions through its affinity for HA, and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in cell migration, tumor growth and progression. In cancer cells, may play an important role in invadopodia formation. Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. Altered expression or dysfunction causes numerous pathogenic phenotypes. Great protein heterogeneity due to numerous alternative splicing and post-translational modification events. Receptor for LGALS9; the interaction enhances binding of SMAD3 to the FOXP3 promoter, leading to up-regulation of FOXP3 expression and increased induced regulatory T (iTreg) cell stability and suppressive function (By similarity).

Subunit Structure: Interacts with PKN2 (By similarity). Interacts with TIAM1 and TIAM2 (By similarity). Interacts with HA, as well as other glycosaminoglycans, collagen, laminin, and fibronectin via its N-terminal segment (PubMed:14992719, PubMed:17085435). Interacts with UNC119 (PubMed:19381274). Interacts with PDPN (via extracellular domain); this interaction is required for PDPN-mediated directional migration and regulation of lamellipodia extension/stabilization during cell spreading and migration (PubMed:20962267). Interacts with RDX, EZR and MSN (By similarity).

Post-translational Modifications: Proteolytically cleaved in the extracellular matrix by specific proteinases (possibly MMPs) in several cell lines and tumors. N-and O-glycosylated. O-glycosylation contains more-or-less-sulfated chondroitin sulfate glycans, whose number may affect the accessibility of specific proteinases to their cleavage site(s). It is uncertain if O-glycosylation occurs on Thr-637 or Thr-638. Phosphorylated; activation of PKC results in the dephosphorylation of Ser-706 (constitutive phosphorylation site), and the phosphorylation of Ser-672.

Similarity: The lectin-like LINK domain is responsible for hyaluronan binding.

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	Observed: 90 kDa Predicted: 82 kDa
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

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://www.aaabiotech.com/polyclonal/cd44-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/322237>