

Product Name: CD44 (19J7) Rabbit Monoclonal Antibody
Catalog #: AMRe08400

Summary

Production Name	CD44 (19J7) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	CD44
Alternative Names	LHR; CD44; CD44 antigen; CDw44; chondroitin sulfate proteoglycan 8; CSPG8; Epican; HCELL; hematopoietic cell E- and L-selectin ligand; Heparan sulfate proteoglycan; Hermes antigen; HSA; HUTCH1; HUTCHI; Hyaluronate receptor; MDU2; MDU3; MIC4; MUTCH1; PGP1; Phagocytic glycoprotein 1; Soluble CD44;
Gene ID	960.0
SwissProt ID	P16070.

Application

Dilution Ratio	WB 1:500-1:2000
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Molecular Weight

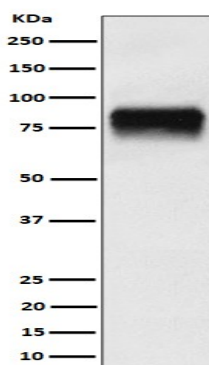
82kDa

Background

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). Cell-surface receptor that plays a role in cell-cell interactions, cell adhesion and migration, helping them to sense and respond to changes in the tissue microenvironment (PubMed:[16541107](http://www.uniprot.org/citations/16541107), PubMed:[19703720](http://www.uniprot.org/citations/19703720), PubMed:[22726066](http://www.uniprot.org/citations/22726066)). Participates thereby in a wide variety of cellular functions including the activation, recirculation and homing of T-lymphocytes, hematopoiesis, inflammation and response to bacterial infection (PubMed:[7528188](http://www.uniprot.org/citations/7528188)). Engages, through its ectodomain, extracellular matrix components such as hyaluronan/HA, collagen, growth factors, cytokines or proteases and serves as a platform for signal transduction by assembling, via its cytoplasmic domain, protein complexes containing receptor kinases and membrane proteases (PubMed:[18757307](http://www.uniprot.org/citations/18757307), PubMed:[23589287](http://www.uniprot.org/citations/23589287)). Such effectors include PKN2, the RhoGTPases RAC1 and RHOA, Rho-kinases and phospholipase C that coordinate signaling pathways promoting calcium mobilization and actin-mediated cytoskeleton reorganization essential for cell migration and adhesion (PubMed:[15123640](http://www.uniprot.org/citations/15123640)).

Research Area

Image Data



Western blot analysis of CD44 expression in U-87 MG cell lysate.



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Note

For research use only.