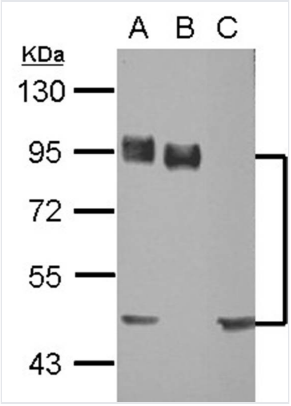
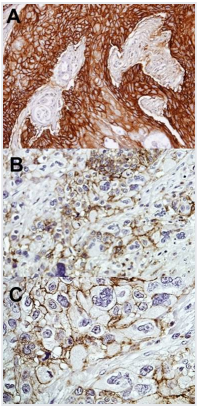
CD44 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

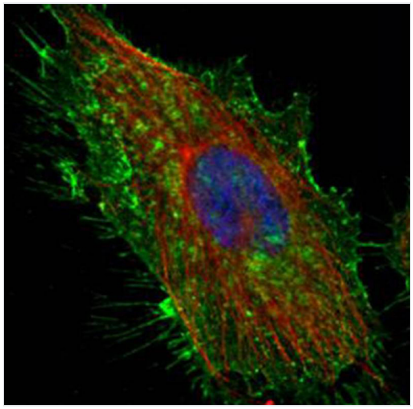
Product Name	CD44, Polyclonal Antibody
Full Product Name	CD44 antigen isoform 4 antibody
Product Gene Name	anti-CD44 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in 1XPBS, 1%BSA, 20% Glycerol (pH7.0). 0.01% Thimerosal was added as a preservative.
Purity/Purification	Purified by antigen-affinity chromatography.
Preparation and Storage	Store at -20 degree C for long term preservation (recommended). Store at 4 degree C for short term use.
Molecular Weight	15,635 Da
OMIM	107269
Immunogen Type	Recombinant protein
Immunogen Description	Recombinant protein fragment contain a sequence corresponding to a region within amino acids 1 and 258 of CD44
Target Name	CD44 antigen isoform 4
Product Categories/Family for anti-CD44 antibody	Total protein Ab
Applications Tested/Suitable for anti-CD44 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-CD44 antibody	Western blotting: 1:500-1:3000 Immunohistochemistry: 1:100-1:250 Immunofluorescence: 1:100-1:200
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. [provided by RefSeq]
Other Notes	Small volumes of anti-CD44 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD44 purchase	MBS9409790 is an antibody targeting CD44. Also known as CD44 antigen isoform 4 antibody. Reactive in Human. Host: Rabbit.



Testing Data of anti-CD44 antibody
Sample (30 ug of whole cell lysate) A: A549 B: H1299 C: MCF-7 10% SDS PAGE Primary antibody diluted at 1: 10000



Immunohistochemistry (IHC) of anti-CD44 antibody
A:Immunohistochemical analysis of paraffin-embedded Cal27 xenograft, using CD44 antibody at 1: 100 dilution. B:Immunohistochemical analysis of paraffin-embedded Human pancreatic tumor, using CD44 antibody at 1: 100 dilution.(20X) C:Immunohistochemical analysis of paraffin-embedded Human pancreatic tumor, using CD44 antibody at 1: 100 dilution.(40X)



Immunofluorescence (IF) of anti-CD44 antibody
Confocal immunofluorescence analysis (Olympus FV10i) of methanol-fixed HeLa, using CD44 antibody (Green) at 1: 500 dilution and alpha-tubulin antibody (Red) at 1: 2000.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD44. It may not necessarily be applicable to this product.

NCBI GI #	48255941
NCBI GeneID	960
NCBI Accession #	NP_001001391
UniProt Secondary Accession #	O95370; P22511; Q04858; Q13419; Q13957; Q13958; Q13959; A5YRN9; B6EAT9; D3DR12; D3DR13
UniProt Related Accession #	P16070
GenBank Nucleotide #	NM_001001391.1
NCBI Official Full Name	CD44 antigen isoform 4
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
UniProt Protein Name	CD44 antigen

UniProt Synonym Protein Names	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; CD_antigen: CD44
Protein Family	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
NCBI Protein Information	CD44 antigen
UniProt Comments for CD44	CD44: 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. 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. Interacts with PKN2. Interacts with HA, as well as other glycosaminoglycans, collagen, laminin, and fibronectin via its N-terminal segment. Interacts with ANK, the ERM proteins (VIL2, RDX and MSN), and NF2 via its C-terminal segment. Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells. 19 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor, misc.; Membrane protein, integral; Motility/polarity/chemotaxis; Cell adhesion Chromosomal Location of Human Ortholog: 11p13 Cellular Component: Golgi apparatus; focal adhesion; cell surface; integral to plasma membrane; basolateral plasma membrane; cytoplasm; plasma membrane; external side of plasma membrane Molecular Function: collagen binding; hematopoietin/interferon-class (D200-domain) cytokine receptor activity; protein binding; hyaluronic acid binding; hyaluronoglucosaminidase activity Biological Process: extracellular matrix organization and biogenesis; Wnt receptor signaling pathway; positive regulation of heterotypic cell-cell adhesion; glycosaminoglycan metabolic process; cytokine and chemokine mediated signaling pathway; cell-matrix adhesion; pathogenesis; negative regulation of caspase activity; positive regulation of peptidyl-serine phosphorylation; hyaluronan catabolic process; negative regulation of DNA damage response, signal transduction by p53 class mediator; extracellular matrix disassembly; positive regulation of peptidyl-tyrosine phosphorylation; cell-cell adhesion; ureteric bud branching; cartilage development; carbohydrate metabolic process; blood coagulation; leukocyte migration; healing during inflammatory response; hyaluronan metabolic process; negative regulation of apoptosis Disease: Blood Group, Indian System
Research Articles on CD44	**1.** CD44v6 is a potential melanoma brain metastasis-specific factor with theranostic utility for stratifying patients.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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