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Anti-CD44 Antibody

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17750

Product Information

Application	WB, IHC-P, IP
Primary Accession	P16070
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	81538
Concentration (mg/ml)	0.2 mg/ml

Additional Information

Gene ID	960
Alias Symbol	CD44
Other Names	CD44, CDW44, CD44 antigen, Cell surface glycoprotein CD44, CSPG8, ECMR-III, Epican, HUTCH-I, LHR, MDU2, MC56, MIC4, Hermes antigen, Hyaluronate receptor, Phagocytic glycoprotein 1, PGP-1, PGP-I, Pgp1, Phagocytic glycoprotein I, MDU3, CD44R, HCELL, He ...
Target/Specificity	The antibody recognizes CD44 of human, mouse, and rat origins
Reconstitution & Storage	Protein A purified
Precautions	Anti-CD44 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CD44
Synonyms	LHR, MDU2, MDU3, MIC4
Function	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, PubMed:19703720, PubMed: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). 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, PubMed: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). Upon interaction with LGALS9 ligand, activates downstream signaling components including LCK, ERK and MAPK to promotes NK cell activation (PubMed:37006235).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Cell projection, microvillus {ECO:0000250|UniProtKB:P15379}. Secreted Note=Colocalizes with actin in membrane protrusions at wounding edges Co-localizes with RDX, EZR and MSN in microvilli. Localizes to cholesterol-rich membrane-bound lipid raft domains {ECO:0000250|UniProtKB:P15379, ECO:0000269|PubMed:23589287}

Tissue Location

Detected in fibroblasts and urine (at protein level) (PubMed:25326458, PubMed:36213313, PubMed:37453717). Detected in placenta (at protein level) (PubMed:32337544). Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.