

CD44 Rabbit mAb

Catalog # AP75231

Product Information

Application WB, IHC-P P16070 **Primary Accession** Reactivity Human Host Rabbit

Clonality Monoclonal Antibody

Calculated MW 81538

Additional Information

Gene ID 960

Other Names CD44

Dilution WB~~1/500-1/1000 IHC-P~~N/A

Format 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and

0.05% BSA.

Storage Store at 4°C short term. Aliquot and store at -20°C long term. Avoid

freeze/thaw cycles.

Protein Information

CD44 Name

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:<u>22726066</u>). 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: <u>7528188</u>). 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:<u>18757307</u>, PubMed:<u>23589287</u>). 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).

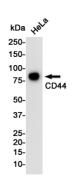
Cellular Location

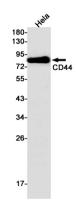
Cell membrane; Single-pass type I membrane protein. Cell projection, microvillus {ECO:0000250 | UniProtKB:P15379}. Secreted Note=Colocalizes with actin in membrane protrusions at wounding edges Co-localizes with RDX, EZR and MSN in microvilli. Localizes to cholesterol-rich membrane-bound lipid raft domains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

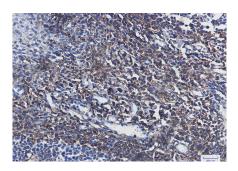
Tissue Location

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

Images







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