

CD44

Mouse Monoclonal antibody(Mab)

Catalog # AD80009

Product Information

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| Application | IHC-P |
| Primary Accession | P16070 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone Names | 344A5C5 |
| Calculated MW | 81538 |

Additional Information

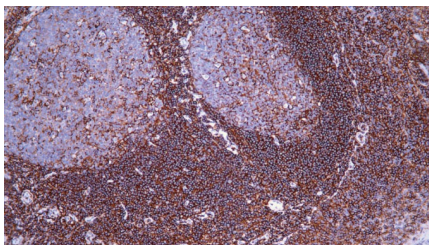
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| Gene ID | 960 |
| Gene Name | CD44 |
| Other Names | CD44 antigen, CDw44, Epican, Extracellular matrix receptor III, ECMR-III, GP90 lymphocyte homing/adhesion receptor, HUTCH-I, Heparan sulfate proteoglycan, Hermes antigen, Hyaluronate receptor, Phagocytic glycoprotein 1, PGP-1, Phagocytic glycoprotein I, PGP-I, CD44, CD44, LHR, MDU2, MDU3, MIC4 |
| Dilution | IHC-P~~Ready-to-use |
| Storage | Maintain refrigerated at 2-8°C. |
| Precautions | CD44 Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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| 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 |

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| | 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 |

Images



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