

CD44
Mouse Monoclonal Antibody (Mab)
Catalog # APA009

Specification

CD44 - Product Information

| | |
|-------------------|------------------------|
| Application | IHC |
| Primary Accession | P16070 |
| Host | Mouse |
| Clonality | Monoclonal |
| Calculated MW | 81538 Da |

CD44 - 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

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|-------------|---|
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Precautions | CD44 is for research use only and not for use in diagnostic or therapeutic procedures. |

CD44 - 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, |

Cellular Location

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](#)).

Cell membrane; Single-pass type I membrane protein. Cell projection, microvillus

{ECO:0000250|UniProtKB:P15379}.

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}

Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells

Tissue Location**CD44 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD44 - Images