

**CD44**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # APA009**

**Specification**

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**CD44 - Product Information**

Application	IHC
Primary Accession	<a href="#">P16070</a>
Host	Mouse
Clonality	Monoclonal
Calculated MW	81538 Da

**CD44 - Additional Information**

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

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: <a href="#">16541107</a> , PubMed: <a href="#">19703720</a> , PubMed: <a href="#">22726066</a> ). 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: <a href="#">7528188</a> ). 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