

**Anti-CD44 Antibody**  
**Rabbit Anti Human Polyclonal Antibody**  
**Catalog # ALS17750****Specification**

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**Anti-CD44 Antibody - Product Information**

Application	<b>WB, IHC-P, IP</b>
Primary Accession	<a href="#">P16070</a>
Predicted	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>81538</b>

**Anti-CD44 Antibody - 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.

**Anti-CD44 Antibody - 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](http://www.uniprot.org/citations/16541107), PubMed: [19703720](http://www.uniprot.org/citations/19703720), PubMed: [22726066](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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:<a href="http://www.uniprot.org/citations/18757307" target="\_blank">18757307</a>, PubMed:<a href="http://www.uniprot.org/citations/23589287" target="\_blank">23589287</a>). 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:<a href="http://www.uniprot.org/citations/15123640" target="\_blank">15123640</a>).

#### **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

#### **Anti-CD44 Antibody - 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](#)

#### **Anti-CD44 Antibody - Images**