

**CD44****Mouse Monoclonal antibody(Mab)****Catalog # AD80009****Specification**

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**CD44 - Product info**

Application	<b>IHC-P</b>
Primary Accession	<a href="#">P16070</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Calculated MW	<b>81538</b>

**CD44 - Additional info**

Gene ID	<b>960</b>
Gene Name	<b>CD44</b>

**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.**

**CD44 - Protein Information****Name** CD44

Synonyms  
Function

**LHR, MDU2, MDU3, MIC4**  
**Receptor for hyaluronic acid (HA).**  
**Mediates cell-cell and cell-matrix interactions through its affinity for HA, and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs).**  
**Adhesion with HA plays an important role in cell migration, tumor growth and progression. In cancer cells, may play an important role in invadopodia formation.**  
**Also involved in lymphocyte activation,**

#### Cellular Location

recirculation and homing, and in hematopoiesis. Altered expression or dysfunction causes numerous pathogenic phenotypes. Great protein heterogeneity due to numerous alternative splicing and post-translational modification events. Receptor for LGALS9; the interaction enhances binding of SMAD3 to the FOXP3 promoter, leading to up-regulation of FOXP3 expression and increased induced regulatory T (iTreg) cell stability and suppressive function (By similarity).

#### Cell membrane

{ECO:0000250|UniProtKB:P15379}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P15379}. 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.

{ECO:0000250|UniProtKB:P15379}

#### Tissue Location

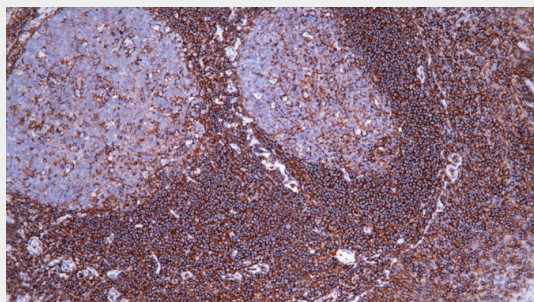
Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas Expression is repressed in neuroblastoma cells

### CD44 - Protocols

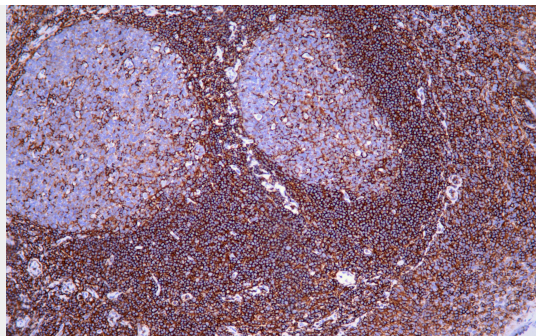
Provided below are standard protocols that you may find useful for product applications.

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

### CD44 - Images



Tonsil



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using AD80009 performed on the Abcarta® FAIP-30 Fully automated IHC platform. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a Citrate buffer (pH6.0). Samples were incubated with primary antibody (Ready-to-use) for 15 min at room temperature. AmpSee™ Detection Systems [Abcepta:AR005] was used as the secondary antibody.