

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

## Specification

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### CD44 - Product info

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

### CD44 - Additional info

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  
IHC~~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.**

#### Cellular Location

Also involved in lymphocyte activation, 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

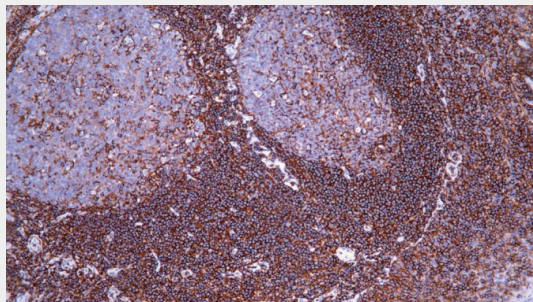
Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas Expression is repressed in neuroblastoma cells

### CD44 - Protocols

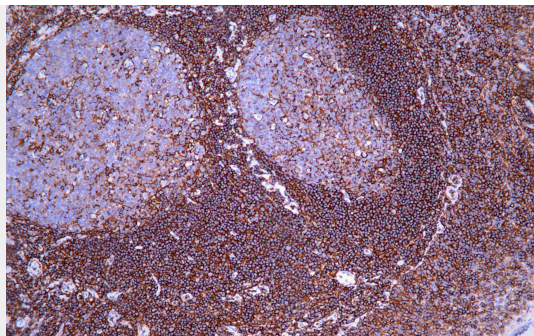
Provided below are standard protocols that you may find useful for product applications.

- [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.