

**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

**This product is stored at 2-8 °C, please use it within the expiration date.**

#### 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

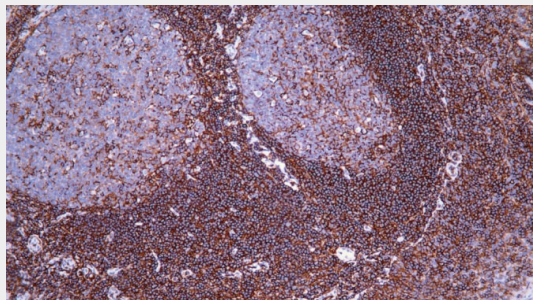
Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas Expression is repressed in neuroblastoma cells

**CD44 - Protocols**

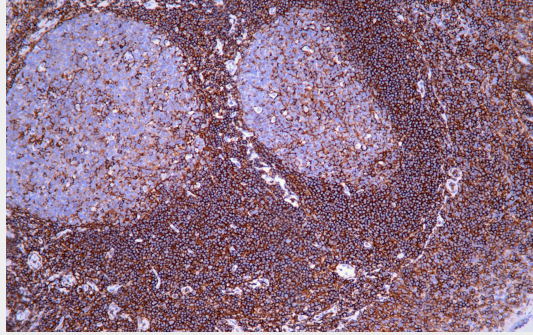
Provided below are standard protocols that you may find useful for product applications.

- [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.