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

## Specification

### CD44 - Product info

| | |
|---|---|
| Application | **IHC-P, IHC** |
| Primary Accession | P16070 |
| Reactivity | **Human** |
| Host | **Mouse** |
| Clonality | **Monoclonal** |
| Calculated MW | **81538** |

### CD44 - Additional info

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|---|---|
| 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

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|---|---|
| Precautions | **CD44 Antibody 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 | **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.** |

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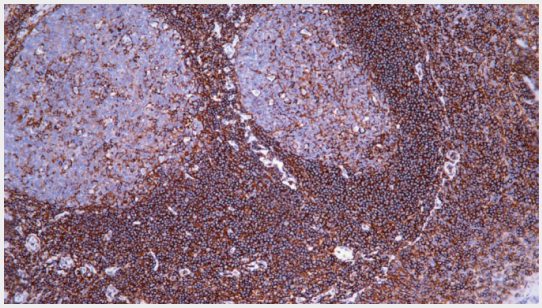
|---|---|
| | **Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. Altered expression or dysfunction causes numerous pathogenic phenotypes. Great protein heterogeneity due to numerous alternative splicing and post-translational modification events. Receptor for LGALS9; 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).** |
| Cellular Location | **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 Cytomety
- Cell Culture

## CD44 - Images



Tonsil

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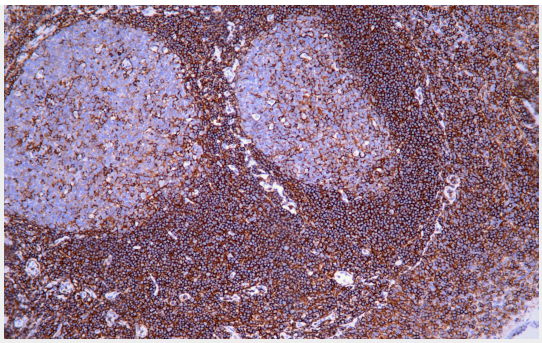

Immunohistochemical analysis of paraffin-embedded human tonsil tissue using AD80009 performed on the Abcarta® FAIP-30 Fully automated IHC platform.Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a Citrate buffer (pH6. 0).Samples were incubated with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