

**CD44 Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF4032a****Specification**

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**CD44 Antibody (internal region) - Product Information**

|                   |                                                                                                                                                                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | WB, E                                                                                                                                                                                                                                                                                             |
| Primary Accession | <a href="#">P16070</a>                                                                                                                                                                                                                                                                            |
| Other Accession   | <a href="#">NP_000601.3</a> , <a href="#">NP_001001389.1</a> ,<br><a href="#">NP_001001390.1</a> , <a href="#">NP_001001391.1</a> ,<br><a href="#">NP_001001392.1</a> , <a href="#">NP_001189484.1</a> ,<br><a href="#">NP_001189485.1</a> , <a href="#">NP_001189486.1</a> , <a href="#">960</a> |
| Reactivity        | Human                                                                                                                                                                                                                                                                                             |
| Host              | Goat                                                                                                                                                                                                                                                                                              |
| Clonality         | Polyclonal                                                                                                                                                                                                                                                                                        |
| Concentration     | 0.5 mg/ml                                                                                                                                                                                                                                                                                         |
| Isotype           | IgG                                                                                                                                                                                                                                                                                               |
| Calculated MW     | 81538                                                                                                                                                                                                                                                                                             |

**CD44 Antibody (internal region) - Additional Information****Gene ID** 960**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**

WB~~1:1000  
E~~N/A

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CD44 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**CD44 Antibody (internal region) - 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:<a href="http://www.uniprot.org/citations/16541107" target="\_blank">16541107</a>, PubMed:<a href="http://www.uniprot.org/citations/19703720" target="\_blank">19703720</a>, PubMed:<a href="http://www.uniprot.org/citations/22726066" target="\_blank">22726066</a>). 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:<a href="http://www.uniprot.org/citations/7528188" target="\_blank">7528188</a>). 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

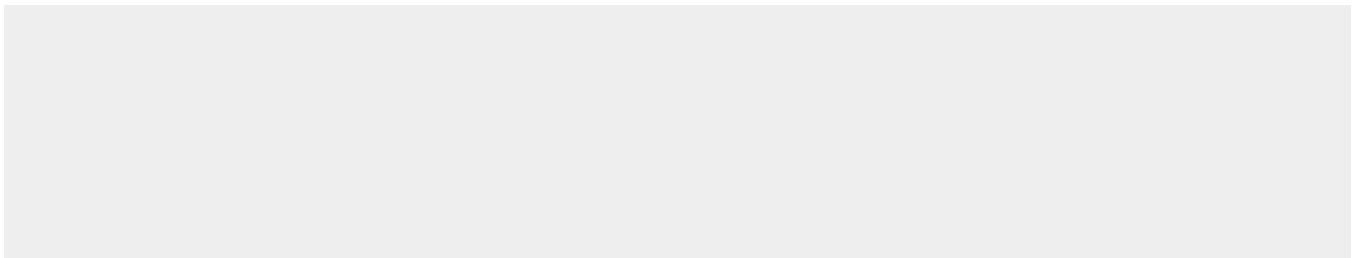
Detected in fibroblasts and urine (at protein level) (PubMed:25326458, PubMed:36213313, PubMed:37453717). Detected in placenta (at protein level) (PubMed:32337544). Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma cells

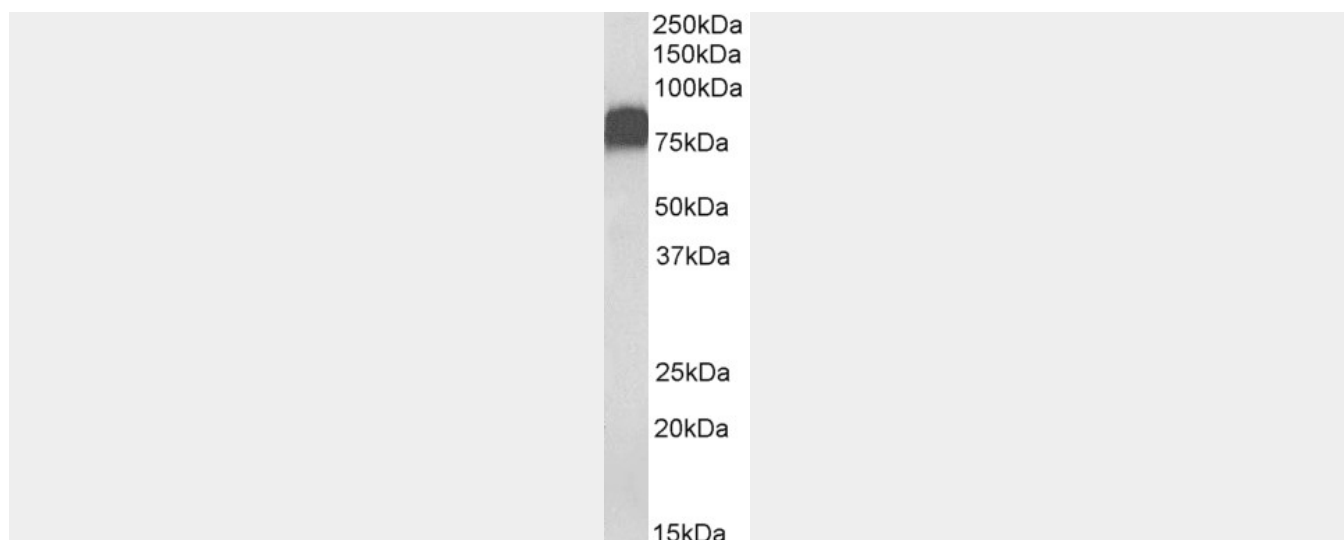
## CD44 Antibody (internal region) - Protocols

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 Antibody (internal region) - Images





E12255 (0.03 µg/ml) staining of U-2 OS lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **CD44 Antibody (internal region) - Background**

This antibody is expected to recognize reported isoforms 1, 2, 3, 4, 6, 7, 8 (NP\_000601.3; NP\_001001389.1; NP\_001001390.1; NP\_001001391.1; NP\_001189484.1; NP\_001189485.1; NP\_001189486.1).

#### **CD44 Antibody (internal region) - References**

Moesin is a glioma progression marker that induces proliferation and Wnt/ $\beta$ -catenin pathway activation via interaction with CD44. Zhu X, Morales FC, Agarwal NK, Dogruluk T, Gagea M, Georgescu MM. Cancer research 2013 Feb 73 (3): 1142-55. PMID: 23221384