

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

CD44 Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	P16070
Other Accession	NP_000601.3 , NP_001001389.1 , NP_001001390.1 , NP_001001391.1 , NP_001001392.1 , NP_001189484.1 , NP_001189485.1 , NP_001189486.1 , 960
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:16541107, PubMed:19703720, PubMed:22726066). 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:7528188). 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:18757307, PubMed:23589287). 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:15123640).

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

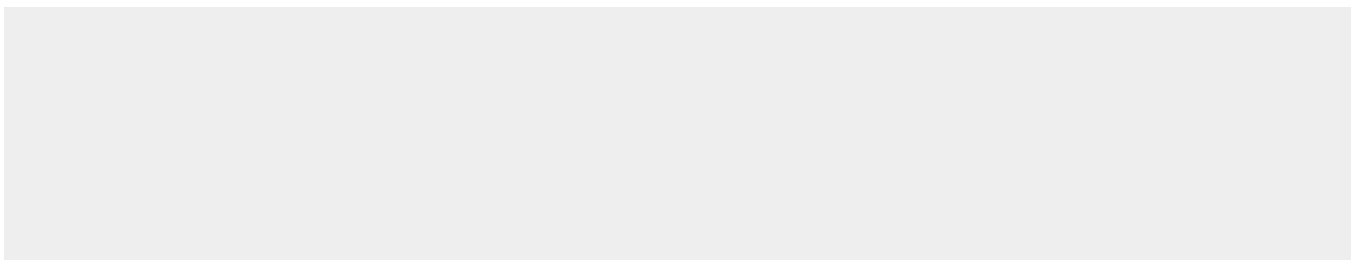
Detected in fibroblasts and urine (at protein level) (PubMed:25326458, PubMed:36213313, PubMed:37453717). Detected in placenta (at protein level) (PubMed:32337544). Isoform 10 (epithelial isoform) is expressed by cells of epithelium and highly expressed by carcinomas. Expression is repressed in neuroblastoma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

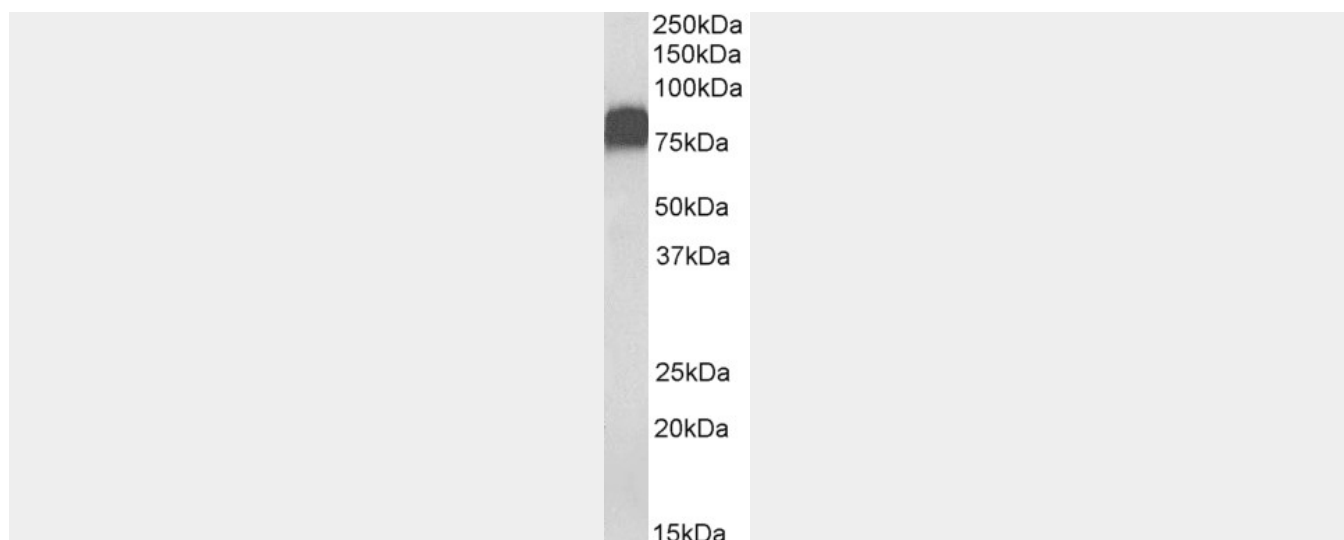
CD44 Antibody (internal region) - Protocols

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/ β -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