

Product datasheet

info@arigobio.com

ARG62852 anti-CD44 antibody [MEM-263]

Package: 100 μg, 50 μg Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [MEM-263] recognizes CD44

Tested Reactivity Hu, Dog, Pig

Predict Reactivity Mk

Tested Application FACS, IHC-P, IP, WB

Specificity The clone MEM-263 reacts with extracellular (N-terminal) domain of standard CD44 (Phagocyte

glycoprotein 1), a 80-95 kDa transmembrane glycoprotein (hyaladherin family) present on the most of cells and tissues (leukocytes, endothelial cells, mesenchymal cells, etc.); it is negative on platelets and

hepatocytes.

HLDA III; WS Code T 155

Host Mouse

Clonality Monoclonal
Clone MEM-263

Isotype IgG1

Target Name CD44

Immunogen COS-7 cells (African Green Monkey).

Conjugation Un-conjugated

Alternate Names MDU2; MDU3; GP90 lymphocyte homing/adhesion receptor; Hermes antigen; Extracellular matrix

receptor III; PGP-I; Epican; CDW44; Phagocytic glycoprotein 1; Pgp1; HUTCH-I; MC56; Hyaluronate receptor; CD antigen CD44; Heparan sulfate proteoglycan; CD44 antigen; LHR; IN; HCELL; Phagocytic

glycoprotein I; PGP-1; CSPG8; MIC4; ECMR-III; CDw44

Application Instructions

Application table	Application	Dilution
	FACS	4 μg/ml
	IHC-P	10 μg/ml
	IP	Assay-dependent
	WB	2 μg/ml
Application Note	WB: 2 µg/ml dilution, 60 min on vertical incubator Positive control: Kg-1a human acute leukemia cell lysate JURKAT human leukemia T-cell lysate Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing SDS-PAGE sample buffer. Application note: Non-reducing conditions. SDS-PAGE (6% separating gel). IHC-P: Positive tissue: uterus, myometrium * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations	

should be determined by the scientist.

Properties

Form Liquid

Purification Purified from ascites by protein-A affinity chromatography.

Purity > 95% (by SDS-PAGE)

Buffer PBS (pH 7.4) and 15 mM Sodium azide

Preservative 15 mM Sodium azide

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GeneID: 960 Human

Swiss-port # P16070 Human

Background CD44 is a transmembrane glycoprotein expressed on the surface of most cells, which serves as a

receptor for hyaluronan. CD44 mediates angiogenesis, cell adhesion, proliferation and migration, it is thus important for lymphocyte activation, recirculation and homing, it can thus serve e.g. as a

modulator of macrophage recruitment in response to pathogen. Although CD44 functions are essential for physiological activities of normal cells, elevated CD44 expression correlates with poor prognosis in many carcinomas, facilitating tumour growth and metastasis, antiapoptosis and directional motility of

cancer cells.

Highlight Related Antibody Duos and Panels:

ARG30314 Chondrogenesis Marker Antibody Panel

Related products:

CD44 antibodies; CD44 ELISA Kits; CD44 Duos / Panels; Anti-Mouse IgG secondary antibodies;

Research Area Cancer antibody; Developmental Biology antibody; Immune System antibody; Chondrogenesis Study

antibody

Calculated Mw 82 kDa

PTM Proteolytically cleaved in the extracellular matrix by specific proteinases (possibly MMPs) in several cell

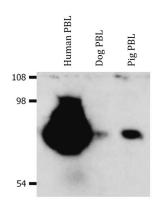
lines and tumors.

N- and O-glycosylated. O-glycosylation contains more-or-less-sulfated chondroitin sulfate glycans, whose number may affect the accessibility of specific proteinases to their cleavage site(s). It is

uncertain if O-glycosylation occurs on Thr-637 or Thr-638.

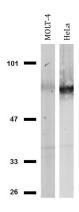
Phosphorylated; activation of PKC results in the dephosphorylation of Ser-706 (constitutive

phosphorylation site), and the phosphorylation of Ser-672.



ARG62852 anti-CD44 antibody [MEM-263] WB image

Western blot: Isolated peripheral blood lymphocytes (PBL) of various species. Human PBL, Dog PBL and Pig PBL lysates stained with ARG62852 anti-CD44 antibody [MEM-263], in non-reducing conditions.



ARG62852 anti-CD44 antibody [MEM-263] WB image

Western blot: MOLT-4 and HeLa cell lysates stained with ARG62852 anti-CD44 antibody [MEM-263], in non-reducing conditions.