

Product datasheet

info@arigobio.com

ARG20796 anti-CD44 antibody [KM201] (Biotin)

Package: 100 μg Store at: 4°C

Summary

Product Description Biotin-conjugated Rat Monoclonal antibody [KM201] recognizes CD44

Tested Reactivity Ms

Tested Application BL, FACS, ICC/IF, IHC-Fr, IHC-P, WB

Specificity Mouse CD44 (all isoforms). The clone KM201 reacts with an epitope very close to the hyaluronate

binding domain on CD44. KM201 can inhibit hyaluronate-dependent cell aggregation, prevent lymphohemopoiesis in both Dexter and Whitlock-Witte cultures, prevent the earliest intrathymic precursors from homing to the thymus, and costimulate the activation of freshly purified splenic CD4+ T cells.

Host Rat

Clonality Monoclonal

Clone KM201

Isotype IgG1, kappa

Target Name CD44

Species Mouse

Immunogen (C57BL/6 x DBA/2)F1 mouse bone marrow-derived stromal clone BMS2

Conjugation Biotin

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
	BL	Assay-dependent
	FACS	< 2 µg/10^6 cells
	ICC/IF	Assay-dependent
	IHC-Fr	Assay-dependent
	IHC-P	Assay-dependent
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Buffer PBS and 0.1% Sodium azide.

Preservative 0.1% Sodium azide

Concentration 0.5 mg/ml

Storage instruction Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. 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 GenelD: 12505 Mouse

Swiss-port # P15379 Mouse

Gene Symbol CD44

Gene Full Name CD44 antigen

Background The protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, cell

adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis. [provided by RefSeq, Jul

2008]

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. 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. [UniProt]

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.