

Product datasheet

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ARG65642 anti-CD44 antibody [IM7]

Package: 100 μg Store at: -20°C

Summary

Product Description Rat Monoclonal antibody [IM7] recognizes CD44

Tested Reactivity Hu, Ms, Cat, Dog, Hrs

Tested Application CyTOF®-candidate, FACS, ICC/IF, IHC-Fr, IHC-P, IP, WB

Specificity Reacts with CD44 antigen (Phagocyte glycoprotein 1), an 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. The antibody reacts with all

isoforms of mouse CD44.

Host Rat

Clonality Monoclonal

Clone IM7

Isotype IgG2b

Target Name CD44

Species Mouse

Immunogen Dexamethasone-induced cells of the SJL mouse spontaneous myeloid leukemia M1.

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
	CyTOF®-candidate	Assay-dependent
	FACS	1 μg/ml
	ICC/IF	Assay-dependent
	IHC-Fr	Assay-dependent
	IHC-P	Assay-dependent
	IP	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.	
Positive Control	Flow cytometry: mouse peripheral blood. Immunohistochemistry (paraffin sections): mouse spleen.	

Properties

Form Liquid

Purification Purification with Protein A.

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: 12505 Mouse

GeneID: 960 Human

Swiss-port # P15379 Mouse

Swiss-port # P16070 Human

Gene Symbol Cd44

Gene Full Name CD44 antigen

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. 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.

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 (By similarity). [UniProt]

Highlight Related products:

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

Related news:

CyTOF-candidate 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

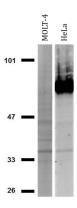
lines and tumors.

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.

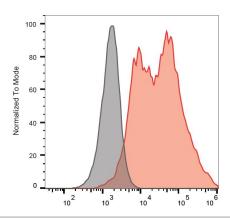
Phosphorylated; activation of PKC results in the dephosphorylation of Ser-706 (constitutive

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



ARG65642 anti-CD44 antibody [IM7] WB image

Western blot: MOLT-4 (negative control) and HeLa cell lysates stained with ARG65642 anti-CD44 antibody [IM7], in non-reducing conditions.



ARG65642 anti-CD44 antibody [IM7] FACS image

Flow Cytometry: Separation of unstained (black) and stained (red) murine splenocytes. Cells were stained with ARG65642 anti-CD44 antibody [IM7] at 6 μ g/ml dilution, followed by APC-conjugated Donkey anti-Rat antibody.