

Mouse anti-Human CD44 Monoclonal Antibody | anti-CD44 antibody

Anti-Hu CD44 APC-Cy7

CATALOG # AAA129166	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD44; Monoclonal Antibody; Anti-Hu CD44 APC-Cy7; PGP-I; HUTCH-I; ECMR-III; Hermes antigen; Hyaluronate receptor; Heparan sulfate proteoglycan; Epican; MC56; MIC4; INLU; LHR; CD44 molecule; anti-CD44 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	MEM-85
Specificity	The antibody MEM-85 reacts with an extracellular antigen of both cell surface-expressed and soluble form of CD44 antigen (Phagocyte glycoprotein 1), a 80-95kDa 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.
Purity/Purification	The purified antibody is conjugated with tandem dye APC-Cy7 under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide
Applicable Applications for anti-CD44 antibody	FCM/FACS (Flow Cytometry)
Conjugation	APC-Cy7
Immunogen	Leukocytes of a patient suffering from LGL Type Leukaemia.
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

ADDITIONAL INFORMATION

Related Product Information for anti-CD44 antibody	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 Functional Application (FUNC)tions 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.
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References	*Kanderova V, Kuzilkova D, Stuchly J, Vaskova M, Brdicka T, Fiser K, Hrusak O, Lund-Johansen F, Kalina T: High-resolution Antibody Array Analysis of Childhood Acute Leukemia Cells. Mol Cell Proteomics. 2016 Apr;15(4):1246-61., URL: http://www.ncbi.nlm.nih.gov/pubmed/26785729,*Schmidt D, Achermann J, Odermatt B, Breyman C, Mol A, Genoni M, Zund G, Hoerstrup SP: Prenatally fabricated autologous human living heart valves based on amniotic fluid derived progenitor cells as single cell source. Circulation. 2007 Sep 11;116(11 Suppl):164-70., URL: http://www.ncbi.nlm.nih.gov/pubmed/17846327,*Kolar GR, Mehta D, Pelayo R, Capra JD: A novel human B cell subpopulation representing the initial germinal center population to express AID. Blood. 2007 Mar 15;109(6):2545-52., URL: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC18521,*Ilangumaran S, Briol A, Hoessli DC: CD44 selectively associates with active Src family protein tyrosine kinases Lck and Fyn in glycosphingolipid-rich plasma membrane domains of human peripheral blood lymphocytes. Blood. 1998 May 15;91(10):3901-8., URL: https://www.ncbi.nlm.nih.gov/pubmed/9573028tool=,*Bazil V, Strominger JL: Metalloprotease and serine protease are involved in cleavage of CD43, CD44, and CD16 from stimulated human granulocytes. Induction of cleavage of L-selectin via CD16. J Immunol. 1994 Feb 1;152(3):1314-22., URL: https://www.ncbi.nlm.nih.gov/pubmed/7507963ordin,*Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997)., URL:,*Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989)., URL:,*Stefanová I, Hilgert I, Bazil V, Kristofová H, Horejsí V: Human leucocyte surface glycoprotein CDw44 and lymphocyte homing receptor are identical molecules. Immunogenetics. 1989;29(6):402-4., URL:,*Campioni D, Moretti S, Ferrari L, Punturieri M, Castoldi GL, Lanza F: Immunophenotypic heterogeneity of bone marrow-derived mesenchymal stromal cells from patients with hematologic disorders: correlation with bone marrow microenvironment. Haematologica. 2006 Mar;91(3):364-8., URL: https://www.ncbi.nlm.nih.gov/pubmed/16531259 *Vigetti D, Viola M, Karousou E, Rizzi M, Moretto P, Genasetti A, Clerici M, Hascall VC, De Luca G, Passi A: Hyaluronan-CD44-ERK1/2 regulate human aortic smooth muscle cell motility during aging. J Biol Chem. 2007 Dec 12, URL: https://www.ncbi.nlm.nih.gov/pubmed/18077444ordin,*Hollingsworth JW, Li Z, Brass DM, Garantzotis S, Timberlake SH, Kim A, Hossain I, Savani RC, Schwartz DA. CD44 regulates macrophage recruitment to the lung in lipopolysaccharide-induced airway disease. Am J Respir Cell Mol Biol. 2007 Aug;37(2):248-53., URL: https://www.ncbi.nlm.nih.gov/pubmed/17446529ordin,*Liu J, Bi G, Wen P, Yang W, Ren X, Tang T, Xie C, Dong W, Jiang G. Down-regulation of CD44 contributes to the differentiation of HL-60 cells induced by ATRA or HMBA. Cell Mol Immunol. 2007 Feb;4(1):59-63., URL: https://www.ncbi.nlm.nih.gov/pubmed/17349212ordin,*Subramaniam V, Gardner H, Jothy S: Soluble CD44 secretion contributes to the acquisition of aggressive tumor phenotype in human colon cancer cells. Exp Mol Pathol. 2007 Dec;83(3):341-6., URL: https://www.ncbi.nlm.nih.gov/pubmed/17945213ordin,*Subramaniam V, Vincent IR, Gardner H, Chan E, Dhamko H, Jothy S: CD44 regulates cell migration in human colon cancer cells via Lyn kinase and AKT phosphorylation. Exp Mol Pathol. 2007 Oct;83(2):207-15., URL: https://www.ncbi.nlm.nih.gov/pubmed/17599831ordin
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NCBI AND UNIPROT INFORMATION

NCBI GI #	48255935
NCBI GeneID	960
NCBI Accession #	NP_000601.3
NCBI GenBank Nucleotide #	NM_000610.3
UniProt Accession #	P16070 ; O95370 ; P22511 ; Q04858 ; Q13419 ; Q13957 ; Q13958 ; Q13959 ; A5YRN9 ; B6EAT9 ; D3DR12 ; D3DR13
Molecular Weight	81,538 Da
NCBI Official Full Name	CD44 antigen isoform 1
NCBI Official Synonym Full Names	CD44 molecule (Indian blood group)
NCBI Official Symbol	CD44
NCBI Official Synonym Symbols	IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1; CDW44; CSPG8; HCELL; HUTCH-I; ECMR-III
NCBI Protein Information	CD44 antigen; epican; Hermes antigen; hyaluronate receptor; phagocytic glycoprotein 1; heparan sulfate proteoglycan; cell surface glycoprotein CD44; extracellular matrix receptor III; chondroitin sulfate proteoglycan 8; GP90 lymphocyte homing/adhesion rec
UniProt Protein Name	CD44 antigen
UniProt Gene Name	CD44
UniProt Synonym Gene Names	LHR; MDU2; MDU3; MIC4; ECMR-III; PGP-1; PGP-I

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/cd44-antibody-clone-mem-85-flow-cytometry-elisa/129166>