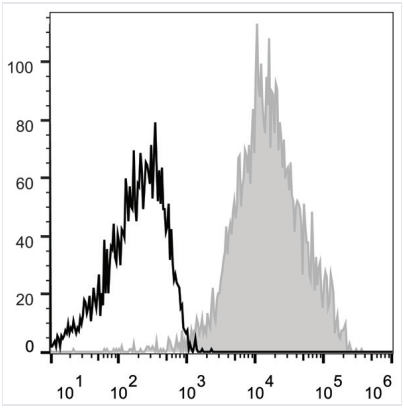
CD44 Antibody – Rat Monoclonal

PRODUCT OVERVIEW

Product Name	CD44, Monoclonal Antibody
Full Product Name	Anti-Mouse/Human CD44 Monoclonal Antibody (APC Conjugated)
Product Gene Name	anti-CD44 antibody
Product Synonym Names	CD44 antigen; CD44; CDw44; Epican; Phagocytic glycoprotein 1; PGP-1; Phagocytic glycoprotein I; PGP-I; CD44; LHR; MDU2; MDU3; MIC4
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	IM7
Host	Rat
Species Reactivity	Mouse, Human
Form/Format	Liquid; PBS with 0.05% Proclin300, 1% BSA
Preparation and Storage	Store at 2-8 degree C and protect from prolonged exposure to light. Do not freeze.
Matching Pairs	Antibody: CD44 (MBS2556532) Isotype Control: IgG2b Clone #LTF-2 (MBS2557868)
Molecular Weight	81,015 Da
3D Structure	ModBase 3D Structure for P15379
Conjugation	APC
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD44 antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD44 antibody	CD44 is a 80-95 kD glycoprotein also known as Hermes, Pgp1, H-CAM, or HUTCH. It is expressed on all leukocytes, endothelial cells, hepatocytes, and mesenchymal cells. As B and T cells become activated or progress to the memory stage, CD44 expression increases from low or mid levels to high levels. Thus, CD44 has been reported to be a valuable marker for memory cell subsets. High CD44 expression on Treg cells has been associated with potent suppressive function via high production of IL-10. CD44 is an adhesion molecule involved in leukocyte attachment to and rolling on endothelial cells, homing to peripheral lymphoid organs and to the sites of inflammation, and leukocyte aggregation.
Product References and Citations for anti-CD44 antibody	1. Barclay AN, et al. 1997. The Leukocyte Antigen FactsBook Academic Press. 2. Haynes BF, et al. 1991. Cancer Cells 3:347. 3. Goldstein LA, et al. 1989. Cell 56:1063. 4. Mikecz K, et al. 1995. Nat. Med. 1:558. 5. Hegde V, et al. 2008. J. Leukocyte Biol. 84:134. 6. Liu T, et al. 2009. Biol. Direct 4:40.
Other Notes	Small volumes of anti-CD44 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD44 purchase	MBS2556532 is an antibody targeting CD44. Also known as Anti-Mouse/Human CD44 Monoclonal Antibody (APC Conjugated). Reactive in Mouse, Human. Host: Rat.



Flow Cytometry (FC/FACS) of anti-CD44 antibody
Mouse/Human splenocytes are stained with Anti-Mouse/Human CD44 Monoclonal Antibody(APC Conjugated)(filled gray histogram). Unstained splenocytes (empty black histogram) are used as control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD44. It may not necessarily be applicable to this product.

NCBI GI #	85540468
NCBI GeneID	12505
NCBI Accession #	NP_001034240.1
UniProt Primary Accession #	P15379
UniProt Secondary Accession #	Q05732; Q61395; Q62060; Q62061; Q62062; Q62063; Q62408; Q62409; Q64296; Q99J14; Q9QYX8
UniProt Related Accession #	P15379
GenBank Nucleotide #	NM_001039151.1
NCBI Official Full Name	CD44 antigen isoform c
NCBI Official Synonym Full Names	CD44 antigen
NCBI Official Symbol	Cd44
NCBI Official Synonym Symbols	Ly-24; Pgp-1; HERMES; AU023126; AW121933; AW146109
UniProt Protein Name	CD44 antigen
UniProt Synonym Protein Names	Extracellular matrix receptor III; ECMR-III; GP90 lymphocyte homing/adhesion receptor; HUTCH-I; Hermes antigen; Hyaluronate receptor; Lymphocyte antigen 24; Ly-24; Phagocytic glycoprotein 1; PGP-1; Phagocytic glycoprotein I; PGP-I; CD_antigen: CD44
Protein Family	CD44 antigen
UniProt Gene Name	Cd44
UniProt Synonym Gene Names	Ly-24; ECMR-III; Ly-24; PGP-1; PGP-I
NCBI Protein Information	CD44 antigen
UniProt Comments for CD44	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 (). Receptor for LGALS9; the interaction enhances binding of SMAD3 to the FOXP3 promoter, leading to up-regulation of FOXP3 expression and increased induced regulatory T (iTreg) cell stability and suppressive function (PubMed:25065622).

Research Articles on CD44	**1.** CD44 functions as a picket, affixing the cortical actin cytoskeleton to the membrane. The extracellular domain of CD44 binds hyaluronan, which forms a pericellular coat.
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