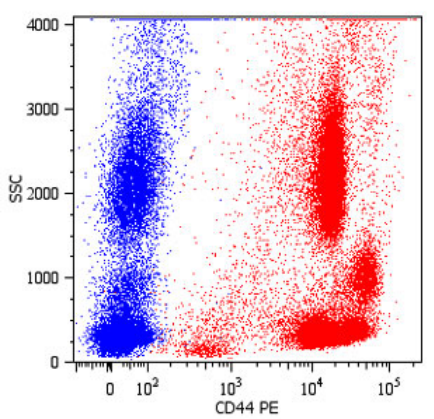
CD44 monoclonal antibody, clone MEM-85 (PE)

Catalog # MAB4571 Size 100 Reactions

Applications



Flow Cytometry

Surface staining of human peripheral blood cells with CD44 monoclonal antibody, clone MEM-85 (PE) (Cat # MAB4571).

Specification

Product Description	Mouse monoclonal antibody raised against native CD44.
Immunogen	Native purified CD44 from leukocytes of patient suffering from LGL-type leukaemia.
Host	Mouse
Theoretical MW (kDa)	80-95
Reactivity	Human
Specificity	This antibody reacts with both cell surface-expressed and soluble form of CD44 antigen (Phagocyte glycoprotein 1), a 80-95 KDa transmembrane glycoprotein (hyaladherin family) present on the most o f cells and tissues (leukocytes, endothelial cells, mesenchymal cells, etc.); it is negative on platelets a nd hepatocytes.
Form	Liquid
Conjugation	PE
Isotype	IgG2b

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Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

  Surface staining of human peripheral blood cells with CD44 monoclonal antibody, clone MEM-85 (PE) (Cat # MAB4571).

Gene Info — CD44

Entrez GeneID	960
Gene Name	CD44
Gene Alias	CDW44, CSPG8, ECMR-III, HCELL, IN, LHR, MC56, MDU2, MDU3, MGC10468, MIC4, MUTCH -I, Pgp1
Gene Description	CD44 molecule (Indian blood group)
Omim ID	107269
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, ce ll adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other l igands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein parti cipates in a wide variety of cellular functions including lymphocyte activation, recirculation and ho ming, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternativ e 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 fu nctional diversity of this protein, and may be related to tumor metastasis. [provided by RefSeq
Other Designations	CD44 antigen|CD44 antigen (homing function and Indian blood group system)|CDW44 antigen|G P90 lymphocyte homing/adhesion receptor|Hermes antigen|antigen gp90 homing receptor|cell ad hesion molecule|cell surface glycoprotein CD44|chondroitin sulfate proteogl

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Publication Reference

- CD44 regulates cell migration in human colon cancer cells via Lyn kinase and AKT phosphorylation.

  Subramaniam V, Vincent IR, Gardner H, Chan E, Dhamko H, Jothy S.

  Experimental and Molecular Pathology 2007 May; 83(2):207.

- Down-regulation of CD44 contributes to the differentiation of HL-60 cells induced by ATRA or HMBA.

  Liu J, Bi G, Wen P, Yang W, Ren X, Tang T, Xie C, Dong W, Jiang G.

  Cellular & Molecular Immunology 2007 Feb; 4(1):59.

- 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.

  Bazil V, Strominger JL.

  Journal of Immunology 1994 Feb; 152(3):1314.

  Application: Flow Cyt, Human, Human granulocytes, Lymphocytes

Pathway

- ECM-receptor interaction
- Hematopoietic cell lineage

Disease

- Arthritis
- Breast Neoplasms
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Craniofacial Abnormalities
- Diabetes Mellitus
- Edema

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- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Heart Defects
- Hepatitis B
- Kidney Failure
- Mouth Abnormalities
- Neoplasm Recurrence
- Neoplasms
- Ovarian Neoplasms

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