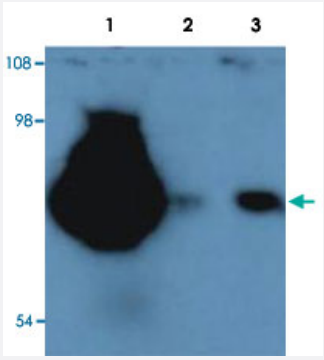
CD44 monoclonal antibody, clone MEM-263 (APC)

Catalog # MAB6490 Size 100 Reactions

Applications



Western Blot (Tissue lysate)

Western Blotting analysis (non-reducing conditions) of isolated peripheral blood lymphocytes of various species using CD44 monoclonal antibody, clone MEM-263.
Lane 1 : lysate of human PBL.
Lane 2 : lysate of canine PBL.
Lane 3 : lysate of porcine PBL.

Specification

Product Description	Mouse monoclonal antibody raised against native CD44.
Immunogen	Native purified CD44 from African Green Monkey COS-7 cells.
Host	Mouse
Theoretical MW (kDa)	80-95
Reactivity	Dog, Human, Monkey, Pig
Specificity	This antibody reacts with extracellular (N-terminal) domain of standard CD44 (Phagocyte glycoprotein 1), a 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.
Form	Liquid
Conjugation	APC
Isotype	IgG1
Recommend Usage	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.

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- Flow Cytometry

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|GP90 lymphocyte homing/adhesion receptor|Hermes antigen|antigen gp90 homing receptor|cell adhesion molecule|cell surface glycoprotein CD44|chondroitin sulfate proteogl

Publication Reference

- Soluble CD44 secretion contributes to the acquisition of aggressive tumor phenotype in human colon cancer cells.

  Subramaniam V, Gardner H, Jothy S.

  Experimental and Molecular Pathology 2007 Dec; 83(3):341.

- 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.

Pathway

- ECM-receptor interaction
- Hematopoietic cell lineage

Disease

- Arthritis
- Breast Neoplasms
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Craniofacial Abnormalities

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