CD44 monoclonal antibody, clone HI44a

Catalog # MAB4981 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against native CD44. The monoclonal antibody is directed against the CD44- antigen, which is mainly expressed on leuco cytes and erythrocytes. Very few types of tissue or cells lack CD44. Cells and tissues that lack CD44 include platelets, hepatocytes, certain lymphoid cell lines, cardiac muscle, kidney tubular epithelium, t estis and portions of the skin. The CD44 antigen is present on approximately 90% of lymphocytes, m onocytes, and granulocytes and in lower amounts on thymocytes, fibroblasts, and erythrocytes.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG2a
Recommend Usage	Flow Cytometry (20 uL/10^6 cells) The optimal working dilution should be determined by the end user.
Storage Buffer	In buffer containing 1% BSA, pH 7.2 (0.09% sodium azide).
Storage Instruction	Store in the dark at 4°C. Avoid prolonged exposure to light.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

Gene Info — CD44

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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

Pathway

- ECM-receptor interaction
- Hematopoietic cell lineage

Disease

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

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- Edema
- 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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