

CD44 monoclonal antibody, clone BU52

Catalog # MAB6914

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against CD44.
Immunogen	Native purified CD44 from human peripheral myeloma cells.
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM sodium phosphate buffer, 100 mM potassium Chloride, 150 mM NaCl, pH 7.5 (0.5 mg/mL gentamicin sulfate)
Storage Instruction	Store at 4°C.

Applications

- Immunohistochemistry (Frozen sections)
- Immunoprecipitation
- 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, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative 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 functional 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 adhesion molecule cell surface glycoprotein CD44 chondroitin sulfate proteogly

Publication Reference

- [N-terminal and central regions of the human CD44 extracellular domain participate in cell surface hyaluronan binding.](#)

Liao HX, Lee DM, Levesque MC, Haynes BF.
Journal of Immunology 1995 Oct; 155(8):3938.

Application: Flow Cyt, IA, WB-Tr, Human, Monkey, 26CB-1 baboon, COS, Jurkat cells
- [CD44 and its interaction with extracellular matrix.](#)

Lesley J, Hyman R, Kincade PW.
Advances in Immunology 1993 Mar; 54:271.
- [New monoclonal antibodies in CD44 and CD58: their use to quantify CD44 and CD58 on normal human erythrocytes and to compare the distribution of CD44 and CD58 in human tissues.](#)

Anstee DJ, Gardner B, Spring FA, Holmes CH, Simpson KL, Parsons SF, Mallinson G, Yousaf SM, Judson PA.
Immunology 1991 Oct; 74(2):197.

Application: IA, Human, Human erythrocytes, Human T cells

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](#)