

Datasheet

CD44 monoclonal antibody, clone MEM-263

Catalog Number: MAB3838

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native CD44.

Clone Name: MEM-263

Immunogen: Native purified CD44 from African Green Monkey COS-7 cells.

Host: Mouse

Theoretical MW (kDa): 80-95

Reactivity: Dog, Human, Pig

Applications: Flow Cyt, IF, IF-CTC, IHC-P, IP, WB-Ce (See our web site product page for detailed applications information)

Protocols: See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

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

Concentration: 1 mg/mL

Isotype: IgG1

Recommend Usage: Western Blot (2 ug/mL)
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (10 ug/mL)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS, pH 7.4 (0.09% sodium azide)

Storage Instruction: Store at 4°C. Do not freeze.

Entrez GeneID: 960

Gene Symbol: CD44

Gene Alias: CDW44, CSPG8, ECMR-III, HCELL, IN, LHR, MC56, MDU2, MDU3, MGC10468, MIC4, MUTCH-I, Pgp1

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]

References:

1. Concurrent CD44s and STAT3 expression in human clear cell renal cellular carcinoma and its impact on survival. Qin J, Yang B, Xu BQ, Smithc A, Xu L, Yuan JL, Li L. *Int J Clin Exp Pathol.* 2014 May 15;7(6):3235-44.
2. HAb18G/CD147 Promotes pSTAT3-Mediated Pancreatic Cancer Development via CD44s. Li L, Tang W, Karnak D, Wu X, Meng X, Lefferdink RL, Hao X, Li Y, Qiao X, Lin J, Fuchs JR, Simeone DM, Chen Z, Lawrence TS, Xu L *Clin Cancer Res.* 2013 Oct 16.
3. Soluble CD44 secretion contributes to the acquisition of aggressive tumor phenotype in human colon cancer cells. Subramaniam V, Gardner H, Jothy S. *Exp Mol Pathol.* 2007 Dec;83(3):341-6. Epub 2007 Sep 7.