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Datasheet

SDC1 monoclonal antibody, clone B-A38 (PE)

Catalog Number: MAB5109

Regulation Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native SDC1.

Clone Name: B-A38

Immunogen: Native purified SDC1 from U266 human peripheral blood myeloma cell line.

Host: Mouse

Theoretical MW (kDa): 65-70

Reactivity: Human

Applications: Flow Cyt
(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 recognizes CD138 (syndecan 1), a 65-70 KDa heparan sulfate proteoglycan expressed mainly in the epidermis and plasma cells, but also in growth factor-stimulated lymphocytes.

Form: Liquid

Conjugation: PE

Isotype: IgG1

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, 15 mM 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.

Entrez GeneID: 6382

Gene Symbol: SDC1

Gene Alias: CD138, SDC, SYND1, syndecan

Gene Summary: The protein encoded by this gene is a transmembrane (type I) heparan sulfate proteoglycan and is a member of the syndecan proteoglycan family. The syndecans mediate cell binding, cell signaling, and cytoskeletal organization and syndecan receptors are required for internalization of the HIV-1 tat protein. The syndecan-1 protein functions as an integral membrane protein and participates in cell proliferation, cell migration and cell-matrix interactions via its receptor for extracellular matrix proteins. Altered syndecan-1 expression has been detected in several different tumor types. While several transcript variants may exist for this gene, the full-length natures of only two have been described to date. These two represent the major variants of this gene and encode the same protein. [provided by RefSeq]

References:

1. Essential role of IL-21 in B cell activation, expansion, and plasma cell generation during CD4+ T cell-B cell collaboration. Kuchen S, Robbins R, Sims GP, Sheng C, Phillips TM, Lipsky PE, Ettinger R. J Immunol. 2007 Nov 1;179(9):5886-96.
2. G1P3, an IFN-induced survival factor, antagonizes TRAIL-induced apoptosis in human myeloma cells. Cheriyath V, Glaser KB, Waring JF, Baz R, Hussein MA, Borden EC. J Clin Invest. 2007 Oct;117(10):3107-17.
3. The syndecan-1 heparan sulfate proteoglycan is a viable target for myeloma therapy. Yang Y, MacLeod V, Dai Y, Khotskaya-Sample Y, Shriver Z, Venkataraman G, Sasisekharan R, Naggi A, Torri G, Casu B, Vlodavsky I, Suva LJ, Epstein J, Yaccoby S, Shaughnessy JD Jr, Barlogie B, Sanderson RD. Blood. 2007 Sep 15;110(6):2041-8. Epub 2007 May 29.