

PO-520-T100

Monoclonal Antibody to CD138 Pacific Orange™ conjugated (100 tests)

| Clone: | B-A38 |
|----------------------|---|
| lsotype: | Mouse IgG1 |
| Specificity: | The antibody B-A38 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. |
| Regulatory Status: | RUO |
| Immunogen: | U266 human peripheral blood myeloma cell line |
| Species Reactivity: | Human |
| Preparation: | The purified antibody is conjugated with Pacific Orange™ under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary. |
| Storage Buffer: | The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide. |
| Storage / Stability: | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. |
| Usage: | The reagent is designed for Flow Cytometry analysis of human blood cells using 4 μ l reagent / 100 μ l of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| Background: | CD138 (syndecan 1) is a transmembrane proteoglycan that can bind a variety of cytokines and modulate their activity, as well as the activity of extracellular matrix components and influence many developmental processes. CD138 is expressed mainly in differentiating keratinocytes and is transiently upregulated in all layers of the epidermis upon tissue injury. It is also highly expressed on plasma cells and can be detected even on fibroblasts, vascular smooth muscle cells and endothelial cells. Up-regulation and down-regulation of CD138 on the cell surface often correlates with the gain of cancerous characteristics. Serum levels of the shedded soluble sCD138 are used as a prognostic factor of cancerogenesis. |

For laboratory research only, not for drug, diagnostic or other use.



Antibodies

References:

*Hayashida K, Johnston DR, Goldberger O, Park PW: Syndecan-1 expression in epithelial cells is induced by transforming growth factor beta through a PKA-dependent pathway. J Biol Chem. 2006 Aug 25;281(34):24365-74.

*Choi DS, Kim JH, Ryu HS, Kim HC, Han JH, Lee JS, Min CK: Syndecan-1, a key regulator of cell viability in endometrial cancer. Int J Cancer. 2007 Aug 15;121(4):741-50.

*Manakil JF, Seymour GJ, Bartold PM: Effect of cytokine and antigen stimulation on peripheral blood lymphocyte syndecan-1 expression. Oral Microbiol Immunol. 2007 Aug;22(4):272-6.

*Muto T, Miyoshi K, Munesue S, Nakada H, Okayama M, Matsuo T, Noma T: Differential expression of syndecan isoforms during mouse incisor amelogenesis. J Med Invest. 2007 Aug;54(3-4):331-9.

*Ojeh N, Hiilesvuo K, Wärri A, Salmivirta M, Henttinen T, Määttä A: Ectopic expression of syndecan-1 in basal epidermis affects keratinocyte proliferation and wound re-epithelialization. J Invest Dermatol. 2008 Jan;128(1):26-34.

*Jilani I, Wei C, Bekele BN, Zhang ZJ, Keating M, Wierda W, Ferrajoli A, Estrov Z, Kantarjian H, O'Brien SM, Giles FJ, Albitar M: Soluble syndecan-1 (sCD138) as a prognostic factor independent of mutation status in patients with chronic lymphocytic leukemia. Int J Lab Hematol. 2008 Jan 7.

*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: The syndecan-1 heparan sulfate proteoglycan is a viable target for myeloma therapy. Blood. 2007 Sep 15;110(6):2041-8.

*Cheriyath V, Glaser KB, Waring JF, Baz R, Hussein MA, Borden EC: G1P3, an IFN-induced survival factor, antagonizes TRAIL-induced apoptosis in human myeloma cells. J Clin Invest. 2007 Oct;117(10):3107-17.

*Kuchen S, Robbins R, Sims GP, Sheng C, Phillips TM, Lipsky PE, Ettinger R: Essential role of IL-21 in B cell activation, expansion, and plasma cell generation during CD4+ T cell-B cell collaboration. J Immunol. 2007 Nov 1;179(9):5886-96.

Unless indicated otherwise, all products are For Research Use Only and not for diagnostic or therapeutic use. Not for resale or transfer either as a stand-alone product or as a component of another product without written consent of EXBIO. EXBIO will not be held responsible for patent infringement or other violations that may occur with the use of our products. All orders are accepted subject to EXBIO's term and conditions which are available at www.exbio.cz.

This product is provided under an agreement between Molecular Probes, Inc. (a wholly owned subsidiary of Invitrogen Corporation), and Exbio Praha, a.s., and the manufacture, use, sale or import of this product may be subject to one or more U.S. patents, pending applications, and corresponding non-U.S. equivalents, owned by Molecular Probes, Inc. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer (whether the buyer is an academic or for-profit entity), including use in flow cytometry that does not utilize a bead based array, but excluding use in combination with microarrays or High Content Screening. The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes. Commercial Purposes means any activity by a party for consideration and may include, but is not limited to: (1) use of the product or its components in manufacturing; (2) use of the product or its components to provide a service, information, or data; (3) use of the product or its components for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the product or its components, whether or not such product or its components are resold for use in research. For information on purchasing a license to this product for any other use, contact Molecular Probes, Inc., Business Development, 29851 Willow Creek Road, Eugene, OR 97402, USA, Tel: (541) 465-8300. Fax: (541) 335-0504.

For laboratory research only, not for drug, diagnostic or other use.