



PO-814-T100

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

Clone:	MI15
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody MI15 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:	A mixture of U266 and XG-1 human myeloma cell lines
Species Reactivity:	Human, Non-Human Primates, Rat
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 µl reagent / 100 µl 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:**

- *Gattei V, Godeas C, Degan M, Rossi FM, Aldinucci D, Pinto A: Characterization of anti-CD138 monoclonal antibodies as tools for investigating the molecular polymorphism of syndecan-1 in human lymphoma cells. *Br J Haematol.* 1999 Jan;104(1):152-62.
- *Krishnan SR, Luk F, Brown RD, Suen H, Kwan Y, Bebawy M: Isolation of Human CD138(+) Microparticles from the Plasma of Patients with Multiple Myeloma. *Neoplasia.* 2016 Jan;18(1):25-32.
- *Atanackovic D, Hildebrandt Y, Templin J, Cao Y, Keller C, Panse J, Meyer S, Reinhard H, Bartels K, Lajmi N, Sezer O, Zander AR, Marx AH, Uhlig R, Zustin J, Bokemeyer C, Kröger N: Role of interleukin 16 in multiple myeloma. *J Natl Cancer Inst.* 2012 Jul 3;104(13):1005-20.
- *Noil JE, Vandyke K, Hewett DR, Mrozik KM, Bala RJ, Williams SA, Kok CH, Zannettino AC: PTTG1 expression is associated with hyperproliferative disease and poor prognosis in multiple myeloma. *J Hematol Oncol.* 2015 Oct 6;8:106.
- *Nadalín MR, Fregnani ER, Silva-Sousa YT, Perez DE: Syndecan-1 (CD138) and Ki-67 expression in odontogenic cystic lesions. *Braz Dent J.* 2011;22(3):223-9.
- *Jourdan M, Caraux A, Caron G, Robert N, Fiol G, Rème T, Bolloré K, Vendrell JP, Le Gallou S, Mourcin F, De Vos J, Kassambara A, Duperray C, Hose D, Fest T, Tarte K, Klein B: Characterization of a transitional preplasmablast population in the process of human B cell to plasma cell differentiation. *J Immunol.* 2011 Oct 15;187(8):3931-41.

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.

EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz