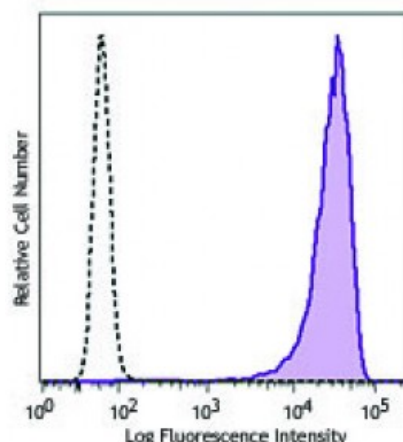


Brilliant Violet 421™ anti-human CD138 (Syndecan-1)

Catalog # / Size:	2382580 / 100 tests 2382575 / 25 tests
Clone:	MI15
Isotype:	Mouse IgG1, κ
Immunogen:	A mixture of U266 and XG-1 human myeloma cell lines.
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Concentration:	Lot-specific



Human myeloma cell line U266 was stained with CD138 (clone MI15) Brilliant Violet 421™ (filled histogram) or mouse IgG1, κ Brilliant Violet 421™ isotype control (open histogram).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

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Application Notes:	The epitope recognized by MI15 is found within the ectodomain of the CD138 core protein. It has been reported that MI15 blocks the binding of clone B-B4 but not clone DL-101 by flow cytometric analysis. Clones DL-101 and MI15 exhibit differential staining patterns on <i>in vitro</i> generated plasma cells and some CD138 ⁺ cell lines. ⁴
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Additional reported applications for the relevant formats include: immunofluorescent staining¹, Western blotting², and immunohistochemical staining of formalin-fixed paraffin-embedded frozen tissue sections³.

Application References:	1. Costes V, <i>et al.</i> 1999. <i>Hum. Pathol.</i> 30:1405. (IF) 2. Gattei V, <i>et al.</i> 1999. <i>Br. J. Haematol.</i> 104:152. (WB) 3. Bologna-Molina R, <i>et al.</i> 2008. <i>Oral Oncol.</i> 44:805. (IHC)
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Description: CD138, a member of the syndecan protein family, is a type I integral membrane heparin sulfate proteoglycan also known as Syndecan-1. Syndecan-1 participates in cell proliferation, cell migration, and cell-matrix adhesion via interaction with collagen, fibronectin, and other soluble molecules (such as FGF-basic). It is expressed on normal and malignant human plasma cells, pre-B cells, epithelial cells, and endothelial cells, but not on mature circulating B-lymphocytes. It is also expressed on some non-hematopoietic cells, including embryonic mesenchymal cells, vascular smooth muscle cells, endothelial cells, and neural cells.

Antigen
References: 1. Sanderson RD, *et al.* 1992. *Cell. Regul.* 1:27.
2. Zola H, *et al.* 2007. Leukocyte and Stromal Cell Molecules: The CD Markers. Wiley-Liss A John Wiley & Sons Inc, Publication.