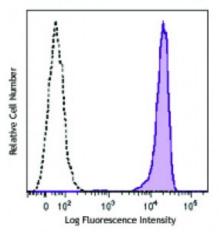
## **Product Data Sheet**

## Purified anti-human CD138 (Syndecan-1)

Catalog # / Size:	2382505 / 25 μg 2382510 / 100 μg
Clone:	MI15
Isotype:	Mouse IgG1, к
Immunogen:	A mixture of U266 and XG-1 human myeloma cell lines.
<b>Reactivity:</b>	Human
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



Human myeloma cell line U266 was stained with purified CD138 (clone MI15, filled histogram) or mouse IgG1,  $\kappa$  isotype control (open histogram), followed by anti-mouse IgG PE.

## **Applications:**

Applications:	Other
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 $\leq 0.5$ microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
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 <sup>+</sup> cell lines.4
	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:	<ol> <li>Costes V, <i>et al.</i> 1999. <i>Hum. Pathol.</i> 30:1405. (IF)</li> <li>Gattei V, <i>et al.</i> 1999. <i>Br. J. Haematol.</i> 104:152. (WB)</li> <li>Bologna-Molina R, <i>et al.</i> 2008. <i>Oral Oncol.</i> 44:805. (IHC)</li> <li>Itoua MR, <i>et al.</i> 2014. <i>Biomed. Res. Int.</i> 2014:536482.</li> </ol>
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.

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

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