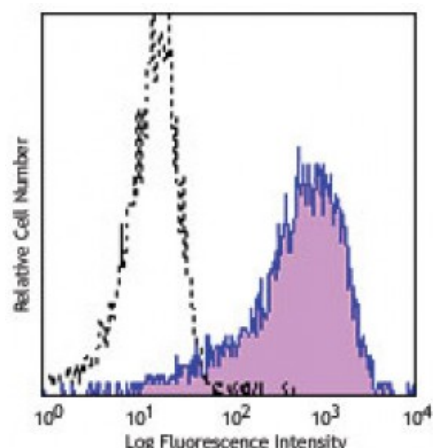


**APC anti-human CD138 (Syndecan-1)**

<b>Catalog # / Size:</b>	2361535 / 25 tests 2361540 / 100 tests
<b>Clone:</b>	DL-101
<b>Isotype:</b>	Mouse IgG1, $\kappa$
<b>Immunogen:</b>	Human SDC1
<b>Reactivity:</b>	Human
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Workshop Number:</b>	V B045
<b>Concentration:</b>	Lot-specific



Human myeloma cell line U266 was stained with CD138 (clone DL-101) APC (filled histogram) or mouse IgG1,  $\kappa$  APC 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. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. 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 *in vitro* generated plasma cells and some CD138<sup>+</sup> cell lines<sup>2</sup>.

Additional reported applications (for the relevant formats of this clone) include: immunohistochemical staining in paraffin blocks of tissue sections<sup>1</sup>.

**Application References:** 1. Osama MA. 2010. *Int. J. Clin. Exp. Pathol.* 3:280. (IHC)  
2. Itoua MR, *et al.* 2014. *Biomed. Res. Int.* 2014:536482. [PubMed](#)

**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.

**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.