

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

**Catalog # / Size:** 2361610 / 100 µg  
**Clone:** DL-101  
**Isotype:** Mouse IgG1, κ  
**Reactivity:** Human  
**Concentration:** 0.5

**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 ≤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 *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>.

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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.