

PE/Dazzle™ 594 anti-human CD138 (Syndecan-1)

Catalog # / Size: 2361595 / 25 tests
2361600 / 100 tests

Clone: DL-101

Isotype: Mouse IgG1, κ

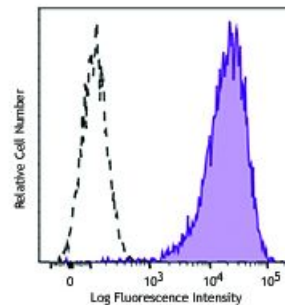
Immunogen: BALB/c mouse purified intestinal brush border membrane

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 650™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 650™ and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Concentration: 0.2



Human myeloma cell line U266 was stained with CD138 (clone DL-101) PE/Dazzle™ 594 (filled histogram) or mouse IgG1, κ PE/Dazzle™ 594 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.

* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

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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 *in vitro* generated plasma cells and some CD138⁺ cell lines².

Additional reported applications (for the relevant formats of this clone) include: immunohistochemical staining in paraffin blocks of tissue sections¹.

- Application References:**
1. Turner BC, *et al.* 2004. *J. Virol.* 78 (10):5486
 2. Williams RK, *et al.* 1990. *J. Virol.* 64:3817
 3. Dveksler GS, *et al.* 1993. *Proc. Natl. Acad. Sci. USA.* 90:1716

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. Nakagaki K, *et al.* 2005. *J. Virol.* 79(10):6102
2. Greicius G *et al.* 2003. *J. Leukoc. Biol.* 74(1):126
3. Hemmila E *et al.* 2004. *J. Virol.* 78(18):10156