

Alexa Fluor® 647 anti-human CD138 (Syndecan-1)

Catalog # / Size: 2361570 / 100 tests
2361565 / 25 tests

Clone: DL-101

Isotype: Mouse IgG1, κ

Immunogen: Human SDC1

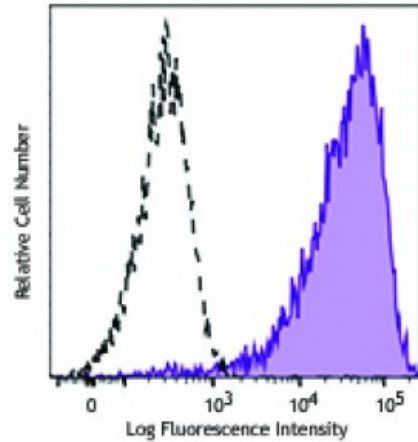
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Workshop Number: V B045

Concentration: Lot-specific



Human myeloma cell line U266 was stained with CD138 (clone DL-101) Alexa Fluor® 647 (filled histogram) or mouse IgG1, κ Alexa Fluor® 647 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.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.

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. 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.

