

Brilliant Violet 785™ anti-mouse CD138 (Syndecan-1)

Catalog # / Size: 1312670 / 50 µg

Clone: 281-2

Isotype: Rat IgG2a, κ

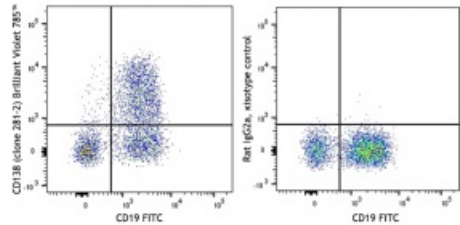
Immunogen: Mouse mammary gland epithelial cell line NMuMG

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 785™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 785™ and unconjugated antibody.

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

Concentration: 0.2 mg/ml



C57BL/6 mouse bone marrow cells were stained with CD19 FITC and CD138 (Syndecan-1) (clone 281-2) Brilliant Violet 785™ (left) or rat IgG2a, κ Brilliant Violet 785™ isotype control (right). Data shown is gated on the lymphoid population.

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 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 785™ is a trademark of Sirigen Group Ltd.

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Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining of frozen tissue³ and formalin-fixed paraffin embedded tissue⁴ and immunofluorescent staining^{2,3}.

- Application References:**
1. Jalkanen M, *et al.* 1985. *J. Cell. Biol.* 101:976. (FC)
 2. Miettinen H, *et al.* 1994. *J. Cell. Sci.* 107:1571. (IF)
 3. Li Q, *et al.* 2002. *Cell* 111:635. (IF, IHC)
 4. McCarthy BA, *et al.* 2012. *BMC Cancer.* 12:203. (IHC)

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 plasma cells, pre-B cells, mesenchymal cells, epithelial cells, and endothelial cells.

Antigen
References:

1. Zong F, *et al.* 2011. *PLoS ONE* 6:e14816.
2. Yamashita Y, *et al.* 1999. *J. Immunol.* 162:5940.
3. Sanderson RD, *et al.* 1989. *Cell. Regul.* 1:27.