APC anti-mouse CD138 (Syndecan-1)

Catalog # / Size: 1312530 / 100 μg

1312525 / 25 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

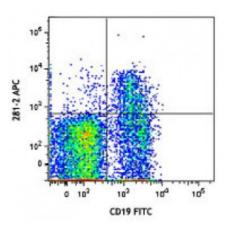
chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and

unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Concentration: 0.2



C57BL/6 mouse bone marrow cells were stained with CD19 FITC and CD138 (clone 281-2) APC (top) or rat IgG2a, κ APC isotype control (bottom). Data shown is from gated on lymphoid cell 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 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes:

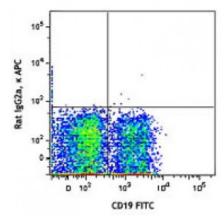
Additional reported applications (for the

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)

McCarthy BA, et al. 2012. BMC Cancer. 12:203. (IHC)
Chiu YK, et al. 2014. J Immunol. 193:2207. PubMed

6. Rozanski CH, et al. 2015. J Immunol. 194:4717. 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 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.