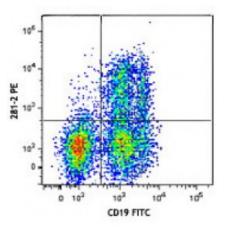
Product Data Sheet

PE anti-mouse CD138 (Syndecan-1)

Catalog # / Size:	1312520 / 200 μg 1312515 / 25 μg
Clone:	281-2
Isotype:	Rat IgG2a, к
Immunogen:	Mouse mammary gland epithelial cell line NMuMG
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE 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) PE (top) or rat IgG2a, κ PE isotype control (bottom). Data shown is from gated on myeloid 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 ≤0.25 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 tissue ⁴ and immunofluorescent staining ^{2,3} .
Application References:	 Jalkanen M, <i>et al.</i> 1985. <i>J. Cell. Biol.</i> 101:976. (FC) Miettinen H, <i>et al.</i> 1994. <i>J. Cell. Sci.</i> 107:1571. (IF) Li Q, <i>et al.</i> 2002. <i>Cell</i> 111:635. (IF, IHC) McCarthy BA, <i>et al.</i> 2012. <i>BMC Cancer.</i> 12:203. (IHC) Kim Yu, <i>et al.</i> 2015. <i>PLoS One.</i> 10:120294. <u>PubMed</u>
Description:	CD138, a member of the syndecan protein family, is a type I integral membr heparin sulfate proteoglycan also known as Syndecan-1. Syndecan-1 particip in cell proliferation, cell migration, and cell matrix adhesion via interaction w

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.

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

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