

## PE/Fire™ 700 anti-mouse CD138 (Syndecan-1) Antibody

<b>Catalog# / Size</b>	142547 / 25 µg 142548 / 100 µg
<b>Clone</b>	281-2
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Syndecan-1
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	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.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Mouse mammary gland epithelial cell line NMuMG
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE/Fire™ 700 under optimal conditions.
<b>Concentration</b>	0.2 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤ 0.06 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.  * PE/Fire™ 700 has a maximum excitation of 565 nm and a maximum emission of 695 nm.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunohistochemical staining of frozen tissue <sup>3</sup> and formalin-fixed paraffin embedded tissue <sup>4</sup> and immunofluorescent staining <sup>2,3</sup> .
<b>Application References</b>	1. Jalkanen M, <i>et al.</i> 1985. <i>J. Cell. Biol.</i> 101:976. (FC) 2. Miettinen H, <i>et al.</i> 1994. <i>J. Cell. Sci.</i> 107:1571. (IF) 3. Li Q, <i>et al.</i> 2002. <i>Cell</i> 111:635. (IF, IHC) 4. McCarthy BA, <i>et al.</i> 2012. <i>BMC Cancer.</i> 12:203. (IHC)
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_3662187 (BioLegend Cat. No. 142547) AB_3662187 (BioLegend Cat. No. 142548)

### Antigen Details

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<b>Structure</b>	Transmembrane heparan sulfate proteoglycan; member of the syndecan proteoglycan family, 100-200 kD
<b>Function</b>	Cell adhesion, cell motility, cell migration, cell proliferation
<b>Cell Type</b>	B cells
<b>Biology Area</b>	Apoptosis/Tumor Suppressors/Cell Death, Cell Adhesion, Cell Biology, Cell Motility/Cytoskeleton/Structure, Immunology
<b>Molecular Family</b>	Adhesion Molecules, CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Zong F, <i>et al.</i> 2011. <i>PLoS ONE</i> 6:e14816.</li> <li>2. Yamashita Y, <i>et al.</i> 1999. <i>J. Immunol.</i> 162:5940.</li> <li>3. Sanderson RD, <i>et al.</i> 1989. <i>Cell. Regul.</i> 1:27.</li> </ol>
<b>Gene ID</b>	<a href="#">20969</a>

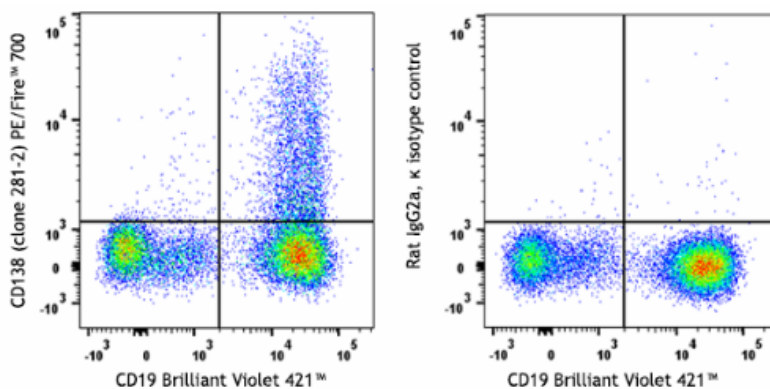
## Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-mouse CD138 (Syndecan-1), PE anti-mouse CD138 (Syndecan-1), APC anti-mouse CD138 (Syndecan-1), Brilliant Violet 421™ anti-mouse CD138 (Syndecan-1), PerCP/Cyanine5.5 anti-mouse CD138 (Syndecan-1), Biotin anti-mouse CD138 (Syndecan-1), PE/Cyanine7 anti-mouse CD138 (Syndecan-1), Brilliant Violet 605™ anti-mouse CD138 (Syndecan-1), Brilliant Violet 650™ anti-mouse CD138 (Syndecan-1), Brilliant Violet 711™ anti-mouse CD138 (Syndecan-1), Brilliant Violet 510™ anti-mouse CD138 (Syndecan-1), Alexa Fluor® 647 anti-mouse CD138 (Syndecan-1), PE/Dazzle™ 594 anti-mouse CD138 (Syndecan-1), APC/Cyanine7 anti-mouse CD138 (Syndecan-1), TotalSeq™-A0810 anti-mouse CD138 (Syndecan-1), Brilliant Violet 785™ anti-mouse CD138 (Syndecan-1), TotalSeq™-C0810 anti-mouse CD138 (Syndecan-1), TotalSeq™-B0810 anti-mouse CD138 (Syndecan-1), PE/Cyanine5 anti-mouse CD138 (Syndecan-1), APC/Fire™ 750 anti-mouse CD138 (Syndecan-1), PE/Fire™ 640 anti-mouse CD138 (Syndecan-1), PE/Fire™ 810 anti-mouse CD138 (Syndecan-1), PE/Fire™ 700 anti-mouse CD138 (Syndecan-1), Spark Red™ 718 anti-mouse CD138 (Syndecan-1) (Flexi-Fluor™), Spark Blue™ 574 anti-mouse CD138 (Syndecan-1) (Flexi-Fluor™)

## Product Data



C57BL/6 mouse bone marrow cells were stained with anti-mouse CD19 (clone 6D5) Brilliant Violet 421™ and anti-mouse CD138 (Syndecan-1) (clone 281-2) PE/Fire™ 700 (left) or rat IgG2a, κ PE/Fire™ 700 isotype control (right). Data shown is gated on the lymphoid cell population.

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8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587