

## Datasheet: MCA2459FT

**BATCH NUMBER 157027**

<b>Description:</b>	MOUSE ANTI HUMAN CD138:FITC
<b>Specificity:</b>	CD138
<b>Other names:</b>	SYNDECAN-1
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	B-A38
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	25 µg

### Product Details

#### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by ion exchange chromatography		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		

<b>Immunogen</b>	U266 cell line.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P18827</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">6382</a>    SDC1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	SDC
<b>RRID</b>	AB_1100696
<b>Fusion Partners</b>	Spleen cells from immunized Balb/c (Iffa Credo) mice were fused with cells of the mouse X63/Ag.8653 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti human CD138 antibody, clone B-A38</b> recognizes human CD138, also known as Syndecan-1 (SDC-1). CD138 is a member of the transmembrane heparan sulfate proteoglycan family (<a href="#">O'Connell et al. 2004</a>, <a href="#">Sanderson et al. 2008</a>). It is composed of a core protein (comprising 3 domains; a short cytoplasmic domain, a transmembrane domain, and a long extracellular domain) and covalently attached heparan sulfate chains (<a href="#">Sanderson et al. 2008</a>).</p> <p>Syndecan-1 is expressed on the surface of plasma cells within the hematopoietic system and on the surface of mature epithelial cells (<a href="#">O'Connell et al. 2004</a>). It acts as an extracellular matrix receptor, involved in many cellular functions, including cell binding, cell signaling and cytoskeletal organization through cell-cell adhesion and cell-matrix adhesion (<a href="#">Sanderson et al. 2008</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>Borset, M. <i>et al.</i> (1993) Lack of IL-1 secretion from human myeloma cells highly purified by immunomagnetic separation. <a href="#">Br J Haematol. 85 (3): 446-51.</a></li> <li>Du, S. <i>et al.</i> (2010) Systemic mastocytosis in association with chronic lymphocytic leukemia and plasma cell myeloma. <a href="#">Int J Clin Exp Pathol. 3 (4): 448-57.</a></li> <li>Kylänpää, L. <i>et al.</i> (2009) Syndecan-1 and tenascin expression in cystic tumors of the pancreas. <a href="#">JOP. 10 (4): 378-82.</a></li> <li>Beauvais, D.M. <i>et al.</i> (2009) Syndecan-1 regulates alphavbeta3 and alphavbeta5 integrin activation during angiogenesis and is blocked by synstatin, a novel peptide inhibitor. <a href="#">J Exp Med. 206: 691-705.</a></li> <li>Beauvais, D.M. and Rapraeger, A.C. (2010) Syndecan-1 couples the insulin-like growth factor-1 receptor to inside-out integrin activation <a href="#">J Cell Sci. 123: 3796-807.</a></li> <li>Kim, Y.C. <i>et al.</i> (2010) Presence of <i>Porphyromonas gingivalis</i> and plasma cell dominance in gingival tissues with periodontitis. <a href="#">Oral Dis. 16: 375-81.</a></li> <li>Chang, H. <i>et al.</i> (2010) CKS1B nuclear expression is inversely correlated with p27Kip1 expression and is predictive of an adverse survival in patients with multiple myeloma. <a href="#">Haematologica. 95: 1542-7.</a></li> <li>Mahshid Y <i>et al.</i> (2009) High expression of 5-lipoxygenase in normal and malignant</li> </ol>

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**Further Reading**

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**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2459FT>  
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**Regulatory**

For research purposes only

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## Related Products

## Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

## Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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'M366951:200529'

**Printed on 05 Feb 2024**

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