

Datasheet: MCA2459FT

BATCH NUMBER 150017

Description:	MOUSE ANTI HUMAN CD138:FITC		
Specificity:	CD138		
Other names:	SYNDECAN-1		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	B-A38		
Isotype:	lgG1		
Quantity:	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.

	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.

Target Species	Human		
oduct Form	Purified IgG conjuga	ated to Fluorescein Isoth	niocyanate Isomer 1
lax Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
uffer Solution	Phosphate buffered	ed by ion exchange chro	
reservative	0.09% Sodium Azide	е	
tabilisers	1% Bovine Serur	n Albumin	
prox. Protein	IgG concentration 0.	.1 mg/ml	

Immunogen	U266 cell line.				
External Database Links	UniProt: P18827 Related reagents Entrez Gene: 6382 SDC1 Related reagents				
Synonyms	SDC				
RRID	AB_1100696				
Fusion Partners	Spleen cells from immunized Balb/c (Iffa Credo) mice were fused with cells of the mouse X63/Ag.8653 myeloma cell line.				
Specificity	Mouse anti human CD138 antibody, clone B-A38 recognizes human CD138, also known as Syndecan-1 (SDC-1). CD138 is a member of the transmembrane heparan sulfate proteoglycan family (O'Connell et al. 2004, Sanderson et al. 2008). 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 (Sanderson et al. 2008). Syndecan-1 is expressed on the surface of plasma cells within the hematopoietic system and on the surface of mature epithelial cells (O'Connell et al. 2004). 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 (Sanderson et al. 2008).				
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.				
References	 Borset, M. <i>et al.</i> (1993) Lack of IL-1 secretion from human myeloma cells highly purified by immunomagnetic separation. Br J Haematol. 85 (3): 446-51. Du, S. <i>et al.</i> (2010) Systemic mastocytosis in association with chronic lymphocytic leukemia and plasma cell myeloma. Int J Clin Exp Pathol. 3 (4): 448-57. Kylänpää, L. <i>et al.</i> (2009) Syndecan-1 and tenascin expression in cystic tumors of the pancreas. JOP. 10 (4): 378-82. 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. J Exp Med. 206: 691-705. Beauvais, D.M. and Rapraeger, A.C. (2010) Syndecan-1 couples the insulin-like growth factor-1 receptor to inside-out integrin activation J Cell Sci. 123: 3796-807. Kim, Y.C. <i>et al.</i> (2010) Presence of <i>Porphyromonas gingivalis</i> and plasma cell dominance in gingival tissues with periodontitis. Oral Dis. 16: 375-81. 				

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Further Reading

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- 2. O'Connell, F.P. *et al.* (2004) CD138 (syndecan-1), a plasma cell marker immunohistochemical profile in hematopoietic and nonhematopoietic neoplasms. <u>Am J Clin Pathol.</u> 121:254-63.
- 3. Sanderson, R.D. *et al.* (2008) Syndecan-1: a dynamic regulator of the myeloma microenvironment. <u>Clin Exp Metastasis</u>. 25:149-59.

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.

Guarantee

12 months from date of despatch

Health And Safety Information

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

nups://www.bio-rad-anubodies.com/5D5/MCA2459F1

10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M366951:200529'

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