

Datasheet: MCA2459PET BATCH NUMBER 1702

MOUSE ANTI HUMAN CD138:RPE
CD138
SYNDECAN-1
RPE
Monoclonal Antibody
B-A38
lgG1
25 TESTS

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 <u>www.bio-rad-antibodies.com/protocols</u> .						
		Yes No	Not Determined	Suggested Dilution			
	Flow Cytometry	•		Neat - 1/5			
	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						
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - Iyophilised						
Reconstitution	Reconstitute with 0.25 ml distilled water						
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)				
	RPE 488nm laser	496	578				
Preparation	Purified IgG prepared by ion exchange chromatography						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum A 5% Sucrose	Albumin					

Immunogen	U266 cell line.
External Database Links	UniProt: <u>P18827</u> <u>Related reagents</u> Entrez Gene: <u>6382</u> SDC1 <u>Related reagents</u>
Synonyms	SDC
RRID	AB_2238768
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 (<u>O'Connell <i>et al.</i> 2004</u> , <u>Sanderson <i>et al.</i> 2008</u>). 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 (<u>Sanderson <i>et al.</i> 2008</u>). Syndecan-1 is expressed on the surface of plasma cells within the hematopoietic system and on the surface of mature epithelial cells (<u>O'Connell <i>et al.</i> 2004</u>). 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 (<u>Sanderson <i>et al.</i> 2008</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
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Further Reading	 Anttonen, A. <i>et al.</i> (1999) Syndecan-1 expression has prognostic significance in head and neck carcinoma. <u>Br J Cancer. 79 (3-4): 558-64.</u> O'Connell, F.P. <i>et al.</i> (2004) CD138 (syndecan-1), a plasma cell marker immunohistochemical profile in hematopoietic and nonhematopoietic neoplasms. <u>Am J Clin Pathol. 121:254-63.</u> Sanderson, R.D. <i>et al.</i> (2008) Syndecan-1: a dynamic regulator of the myeloma microenvironment. <u>Clin Exp Metastasis. 25:149-59.</u>
Storage	Prior to reconstitution store at +4°C. After reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. 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 #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA2459PET 20487
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

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		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@b	bio-rad.com	Email: antibody_sales_uk@bic	-rad.com	Email: antibody_sales_de@bio-rad.com

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