

Datasheet: MCA1019F

Description:	MOUSE ANTI HUMAN CD38:FITC
Specificity:	CD38
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	AT13/5
Isotype:	lgG1
Quantity:	0.1 mg

Product Details

RRID AB_321679

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

Product Form Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/EmFluorophoreExcitation Max (nm)Emission Max (nm)FITC490525

Preparation Purified IgG prepared by affinity chromatography on Protein A

Buffer Solution Phosphate buffered saline

Preservative 0.09% Sodium Azide
Stabilisers 1% Boying Serum

Stabilisers 1% Bovine Serum Albumin

Approx. Protein
Concentrations

IgG concentration 0.1 mg/ml

Immunogen Namalwa human B-cell line.

External Database Links

UniProt:

P28907 Related reagents

F	ntr	ez	G	۵n	Δ	

952 CD38 Related reagents

Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	Mouse anti Human CD38 antibody, clone AT13/5 recognizes a ~45 kDa glycoprotein and has a reactivity pattern consistent with antibodies of the CD38 cluster. CD38 is expressed by plasma cells, monocytes, early lymphoid cells and activated T cells.
	CD38 is widely used to study the processes of B and T differentiation and activation. CD38 is a multifunctional enzyme involved in calcium signaling and Nicotinamide Adenine Dinucleotide (NAD+) metabolism (de Oliveira et al. 2018).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole blood.
References	1. Malavasi, F. <i>et al.</i> (1994) Human CD38: a glycoprotein in search of a function. <u>Immunol Today.</u> 15 (3): 95-7.
	2. Ellis, J.H. et al. (1995) Engineered anti-CD38 monoclonal antibodies for immunotherapy of
	multiple myeloma. J Immunol. 155 (2): 925-37.
	3. Corcione, A. et al. (2009) CX3CR1 is expressed by human B lymphocytes and mediates
	[corrected] CX3CL1 driven chemotaxis of tonsil centrocytes. PLoS One. 4: e8485.
	4. Hovden, A.O. et al. (2011) Maturation of monocyte derived dendritic cells with OK432 boosts
	IL-12p70 secretion and conveys strong T-cell responses. <u>BMC Immunol.</u> ;12:2. 5. Tipping, A.J. <i>et al.</i> (2009) High GATA-2 expression inhibits human hematopoietic stem and
	progenitor cell function by effects on cell cycle <u>Blood. 113: 2661-72.</u>
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	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

Recommended Useful Reagents

<u>HUMAN SEROBLOCK (BUF070A)</u> <u>HUMAN SEROBLOCK (BUF070B)</u>

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'M341751:190109'

Printed on 12 Apr 2019

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