

Datasheet: MCA1019SBB615 BATCH NUMBER 100006875

Description:	MOUSE ANTI HUMAN CD38:StarBright Blue 615			
Specificity:	CD38			
Format:	StarBright Blue 615			
Product Type:	Monoclonal Antibody			
Clone:	AT13/5			
Isotype:	lgG1			
Quantity:	100 TESTS/0.5ml			

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 recom	mendations, please visit <u>w</u>	<u>/ww.bio-</u>			
	rad-antibodies.com/protocols.						
		Yes No	Not Determined	Suggested Dilution			
	Flow Cytometry	-		Neat			
	Where this product has	not been tested	for use in a particular tecl	nnique this does not			
	necessarily exclude its ι	ise in such proc	edures. Suggested workir	ng dilutions are given as			
	a guide only. It is recom	mended that the	e user titrates the product	for use in their own			
	system using appropriat	e negative/posi	ive controls.				
Target Species	Human						
Product Form	Purified IgG conjugated to StarBright Blue 615 - liquid						
Max Ex/Em	Fluorophore	Excitation Max (I	nm) Emission Max (nm)				
	StarBright Blue 615	475	612				
Preparation	Purified IgG prepared by affinity chromatography on Protein A						
Buffer Solution	Phosphate buffered saline						
Preservative	0.09% sodium azide (NaN ₃)						
Stabilisers	1% bovine serum albumin						
	0.1% Pluronic F68.						
	0.1% PEG 3350						
	0.05% Tween 20						

Immunogen	Namalwa human B-cell line.			
External Database Links	UniProt: <u>P28907</u> <u>Related reagents</u> Entrez Gene: <u>952</u> CD38 <u>Related reagents</u>			
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.			
Specificity	Mouse anti Human CD38 antibody, clone AT13/5 recognizes CD38, also known as ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1, 2'-phospho-ADP-ribosyl cyclase, 2'-phospho-ADP-ribosyl cyclase, ADP-ribosyl cyclase 1, Cyclic ADP-ribose hydrolase 1 or T10. CD38 is a 300 amino acid ~45 kDa single pass type II transmembrane glycoprotein and Mouse anti Human CD38 antibody, clone AT13/5 has a reactivity pattern consistent with other antibodies of the CD38 cluster. CD38 is expressed by plasma cells, monocytes, early lymphoid cells and activated T cells.			
	CD38 is a multifunctional enzyme involved in calcium signaling and nicotinamide adenine dinucleotide (NAD+) metabolism (<u>de Oliveira <i>et al.</i> 2018</u>).			
Flow Cytometry	Use 5µl of the suggested working dilution to label 10 ⁶ cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.			
References	 Corcione, A. <i>et al.</i> (2009) CX3CR1 is expressed by human B lymphocytes and mediates [corrected] CX3CL1 driven chemotaxis of tonsil centrocytes. <u>PLoS One. 4</u>: <u>e8485.</u> Hovden, A.O. <i>et al.</i> (2011) Maturation of monocyte derived dendritic cells with OK432 boosts IL-12p70 secretion and conveys strong T-cell responses. <u>BMC Immunol. 12</u>: 2. 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</u>: 2661-72. Slyker, J.A. <i>et al.</i> (2012) Acute cytomegalovirus infection is associated with increased frequencies of activated and apoptosis-vulnerable T cells in HIV-1-infected infants. <u>J Virol.</u> <u>86 (20): 11373-9.</u> Slyker, J.A. <i>et al.</i> (2012) The impact of HIV-1 infection and exposure on natural killer (NK) cell phenotype in Kenyan infants during the first year of life. <u>Front Immunol. 3</u>: 399. Kelleher, M. <i>et al.</i> (2011) Comparative Kinetics of Immune Responses and Changes in Cellular Sub-Sets Detected in Colorectal Cancer Patients Vaccinated with MVA-5T4 (TroVax) Administered Alongside Two Different Chemotherapy Regimens <u>J Cancer</u> <u>Therapy. 02 (01): 54-64.</u> 			
Further Reading	1. Malavasi, F. <i>et al.</i> (1994) Human CD38: a glycoprotein in search of a function. <u>Immunol</u> <u>Today. 15 (3): 95-7.</u>			
Storage	Store at +4°C. DO NOT FREEZE.			

	This product should be stored undiluted.
Guarantee	12 months from date of despatch
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Health And Safety Information	Material Safety Datasheet documentation #20471 available at: https://www.bio-rad-antibodies.com/SDS/MCA1019SBB615 20471
Regulatory	For research purposes only

Related Products

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		Fax: +49 (0) 89 8090 95 50		
	Email: antibody_sales_us@bio-ra	id.com	Email: antibody_sales_uk@bio-ra	ad.com	Email: antibody_sales_de@bio-rad.com		
To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets							

'M407328:221007'

Printed on 08 Mar 2024

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