

Datasheet: MCA2245SBB700

Description:	RAT ANTI MOUSE CD41:StarBright Blue 700
Specificity:	CD41
Other names:	INTEGRIN ALPHA IIB
Format:	StarBright Blue 700
Product Type:	Monoclonal Antibody
Clone:	MWReg30
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 recommendations, please visit <u>www.bio-rad-antibodies.com/protocols</u> .							
		Yes	No	Not Determined	Suggested Dilution			
	Flow Cytometry	-			Neat			
	Where this product 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 product for use in their own system using appropriate negative/positive controls.							
Target Species	Mouse							
Product Form	Purified IgG conjugated to StarBright Blue 700 - liquid							
Max Ex/Em	Fluorophore	Excitation Ma	x (nm)	Emission Max (nm)				
	StarBright Blue 700	473		703				
Preparation	Purified IgG prepared supernatant	by affinity chro	matogra	aphy on Protein G fror	m tissue culture			
Buffer Solution	Phosphate buffered sa	lline						
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	Purified murine platelets
External Database Links	UniProt: Q9QUM0 Related reagents Entrez Gene: <u>16399</u> Itga2b <u>Related reagents</u>
Specificity	Rat anti Mouse CD41 antibody, clone MWReg30 recognizes the mouse integrin alpha Ilb subunit CD41. CD41 is a ~125 kDa single pass type 1 transmembrane glycoprotein expressed by platelets, megakaryocytes (Zhang <i>et al.</i> 2007), mast cells (Berlanga <i>et al.</i> 2005), and hematopoietic progenitors (Mitjavila-Garcia <i>et al.</i> 2002). CD41 forms a heterodimer with CD61.The CD41/CD61 complex is important for platelet adhesion and aggregation (Patel <i>et al.</i> 2003) acting as a receptor for many extracellular matrix proteins including fibronectin,
	thrombospondin and vitronectin (<u>Weisel <i>et al.</i> 1992</u>). Rat anti mouse CD41, clone MWReg30 has been reported to inhibit PMA induced aggregation <i>in vitro</i> and to induce hypothermia <i>in vivo</i> (<u>Nieswandt <i>et al.</i> 1999</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	 Larson, M.K. and Watson, S.P. (2006) Regulation of proplatelet formation and platelet release by integrin alpha IIb beta3. <u>Blood. 108: 1509-14.</u> Tamagawa-Mineoka, R. <i>et al.</i> (2007) The role of platelets in leukocyte recruitment in chronic contact hypersensitivity induced by repeated elicitation. <u>Am J Pathol. 170: 2019-29.</u> Lutskiy, M.I. <i>et al.</i> (2007) WASP localizes to the membrane skeleton of platelets. <u>Br J Haematol. 139: 98-105.</u> Perez, L.E. <i>et al.</i> (2008) SH2-inositol phosphatase 1 negatively influences early megakaryocyte progenitors. <u>PLoS One. 3: e3565.</u> Zanzinger, K. <i>et al.</i> (2009) Regulation of triggering receptor expressed on myeloid cells 1 expression on mouse inflammatory monocytes. <u>Immunology. 128: 185-95.</u> Winter, O. <i>et al.</i> (2010) Megakaryocytes constitute a functional component of a plasma cell niche in the bone marrow. <u>Blood. 116: 1867-75.</u> Takayama, M. <i>et al.</i> (2010) Genetic analysis of hierarchical regulation for Gata1 and NF-E2 p45 gene expression in megakaryopoiesis. <u>Mol Cell Biol. 30: 2668-80.</u> Sullivan, B.P. <i>et al.</i> (2010) NF-E2 domination over Nrf2 promotes ROS accumulation and megakaryocytic maturation. <u>Blood. 115 (3): 677-86.</u> Göçmen, A.Y. <i>et al.</i> (2011) Effect of resveratrol on platelet activation in hypercholesterolemic rats: CD40-CD40L system as a potential target. <u>Appl Physiol Nutr Metab. 36 (3): 323-30.</u>

Related Products

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A)

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-rad.com		Email: antibody_sales_uk@bio-rad.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 'M421936:230815'

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