

Datasheet: MCA2245SBB700

BATCH NUMBER 100008107

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 www.bio-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 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 conjuga	ted to StarBright Blue 7	700 - liquid
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Blue 700	473	703
Preparation	Purified IgG prepare supernatant	d by affinity chromatog	raphy on Protein G t
uffer Solution	Phosphate buffered	saline	
eservative	0.09% Sodium Azide	e (NaN ₃)	
tabilisers	1% Bovine Serum Al	lbumin	
	0.1% Pluronic F68		
	0.1701 10.011101 00		

Im	m	un	oq	en

Purified murine platelets

External Database Links

UniProt:

Q9QUM0 Related reagents

Entrez Gene:

16399 Itga2b Related reagents

Specificity

Rat anti Mouse CD41 antibody, clone MWReg30 recognizes the mouse integrin alpha IIb subunit CD41. CD41 is a ~125 kDa single pass type 1 transmembrane glycoprotein expressed by platelets, megakaryocytes (<u>Zhang et al. 2007</u>), mast cells (<u>Berlanga et al. 2005</u>), and hematopoietic progenitors (<u>Mitjavila-Garcia et al. 2002</u>). CD41 forms a heterodimer with <u>CD61</u>.

The CD41/CD61 complex is important for platelet adhesion and aggregation (<u>Patel et al.</u> 2003) acting as a receptor for many extracellular matrix proteins including fibronectin, thrombospondin and vitronectin (<u>Weisel et al.</u> 1992).

Rat anti mouse CD41, clone MWReg30 has been reported to inhibit PMA induced aggregation *in vitro* and to induce hypothermia *in vivo* (Nieswandt *et al.* 1999).

Flow Cytometry

Use 5µl of the suggested working dilution to label 10⁶ cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

References

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- 8. Sullivan, B.P. *et al.* (2010) Protective and damaging effects of platelets in acute cholestatic liver injury revealed by depletion and inhibition strategies. <u>Toxicol Sci. 115:</u> 286-94.
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hypercholesterolemic rats: CD40-CD40L system as a potential target. <u>Appl Physiol Nutr</u> Metab. 36 (3): 323-30.

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- 14. Woods, S.J. *et al.* (2015) Kinetic profiling of *in vivo* lung cellular inflammatory responses to mechanical ventilation. <u>Am J Physiol Lung Cell Mol Physiol. 308 (9):</u> L912-21.
- 15. Flierl, U. *et al.* (2015) Phosphorothioate backbone modifications of nucleotide-based drugs are potent platelet activators. J Exp Med. 212 (2): 129-37.
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- 18. Ryan, J. *et al.* (2016) Myeloid cell-mediated renal injury in rapidly progressive glomerulonephritis depends upon spleen tyrosine kinase. <u>J Pathol. 238 (1): 10-20.</u>
- 19. Criel, M. *et al.* (2016) Absence of Pear1 does not affect murine platelet function *in vivo*. Thromb Res. 146: 76-83.
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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/MCA2245SBB700 20471
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

 North & South
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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 'M421936:230815'

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