

## Datasheet: MCA467GA

Description:	MOUSE ANTI HUMAN CD41
Specificity:	CD41
Other names:	INTEGRIN ALPHA IIB
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	PM6/248
lsotype:	lgG1
Quantity:	0.1 mg

### **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-</u>					
	rad-antibodies.com/protocols.					

		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			
	Immunohistology - Frozen			-	
	Immunohistology - Paraffin				
	ELISA				
	Immunoprecipitation			•	
	Western Blotting				
	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				
Species Cross Reactivity	Reacts with: Baboon <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG prepared by supernatant	affinity c	hromatog	raphy on Protein A fror	n tissue culture

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human platelet plasma membranes.
External Database Links	UniProt: <u>P08514</u> <u>Related reagents</u> Entrez Gene: <u>3674</u> ITGA2B <u>Related reagents</u>
Synonyms	GP2B, ITGAB
RRID	AB_324706
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	<b>Mouse anti Human CD41 antibody, clone PM6/248</b> recognizes the human CD41 cell surface antigen, a ~140 kDa glycoprotein expressed by platelets and megakaryocytes. CD41 is also known as platelet glycoprotein IIb, and functions as a receptor for fibrinogen, fibronectin and vWF.
Specificity	surface antigen, a ~140 kDa glycoprotein expressed by platelets and megakaryocytes. CD41 is also known as platelet glycoprotein IIb, and functions as a receptor for fibrinogen,
Specificity Flow Cytometry	<ul> <li>surface antigen, a ~140 kDa glycoprotein expressed by platelets and megakaryocytes.</li> <li>CD41 is also known as platelet glycoprotein IIb, and functions as a receptor for fibrinogen, fibronectin and vWF.</li> <li>It has not been established if clone PM6/248 recognizes free CD41 or CD41 only when complexed with CD61. However, antibody binding is reduced in the presence of EDTA</li> </ul>

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	Monoclonal Antibody, to the Platelets and Addition of Heparin and CaCl2 to the Antibody			
	Neutralizes the EDTA-induced Inhibitory Effect Korean J Hematol 44: 42 - 6.			
	8. Maloney, S.F. <i>ety al.</i> (2010) P2Y12 or P2Y1 inhibitors reduce platelet deposition in a			
	microfluidic model of thrombosis while apyrase lacks efficacy under flow conditions. Integr			
	Biol (Camb). 2: 183-92.			
	9. Welsh, J.D. <i>et al.</i> (2012) Platelet-targeting sensor reveals thrombin gradients within			
	blood clots forming in microfluidic assays and in mouse. <u>J Thromb Haemost. 10 (11)</u>			
	<u>2344-53.</u>			
	10. Foruzanmehr, M. <i>et al.</i> (2014) Nano-structure TiO <sub>2</sub> film coating on 316L stainless steel			
	via sol-gel technique for blood compatibility improvement Nanomedicine J. 1 (3): 128-36.			
	11. Kamat, V. et al. (2015) Microfluidic assessment of functional culture-derived platelets			
	in human thrombi under flow. <u>Exp Hematol. 43 (10): 891-900.e4.</u>			
	12. Miyazaki, K. et al. (2015) Immature platelet fraction measurement is influenced by			
	platelet size and is a useful parameter for discrimination of macrothrombocytopenia.			
	<u>Hematology. 20 (10): 587-92.</u>			
	13. Vučetić, D. et al. (2018) Flow cytometry analysis of platelet populations: usefulness for			
	monitoringthe storage lesion in pooled buffy-coat platelet concentrates. Blood Transfus. 16			
	<u>(1): 83-92.</u>			
	14. Burdorf, L. et al. (2019) Thromboxane and histamine mediate PVR elevation during			
	xenogeneic pig lung perfusion with human blood. <u>Xenotransplantation. 26 (2): e12458.</u> 15. Miura, S. <i>et al.</i> (2022) Effects of human TFPI and CD47 expression and selectin and			
	integrin inhibition during GalTKO.hCD46 pig lung perfusion with human blood.			
	Xenotransplantation. 29 (2): e12725.			
	16. Chaban, R. <i>et al.</i> (2023) Increased human complement pathway regulatory protein			
	gene dose is associated with increased endothelial expression and prolonged survival			
	during ex-vivo perfusion of GTKO pig lungs with human blood. <u>Xenotransplantation. 30</u>			
	(4): e12812.			
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at			
-	-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for			
	short term use (up to 4 weeks) and store the remaining aliquots at -20°C.			
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in			
	frost-free freezers is not recommended.			
Guarantee	12 months from date of despatch			
Health And Safety	Material Safety Datasheet documentation #10040 available at:			
Information	https://www.bio-rad-antibodies.com/SDS/MCA467GA			
	10040			
Regulatory	For research purposes only			
. loguiatory				

glycoprotein IIb/IIIa in aplastic anemia and idiopathic thrombocytopenic purpura. Ann Clin

# **Related Products**

#### **Recommended Secondary Antibodies**

Rabbit Anti Mouse IgG (STAR12)	RPE	
Goat Anti Mouse IgG IgA IgM (STAR87)	) <u>HRP</u>	
Goat Anti Mouse IgG (STAR76)	RPE	
Goat Anti Mouse IgG (STAR70)	FITC	
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,	
	DyLight®650, DyLight®680, DyLight®800	<u>)</u> ,
	FITC, HRP	
Goat Anti Mouse IgG (STAR77)	HRP	
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>	
Goat Anti Mouse IgG (Fc) (STAR120)	<u>FITC</u> , <u>HRP</u>	
Rabbit Anti Mouse IgG (STAR13)	HRP	
<b>Recommended Negative Controls</b>		
MOUSE IgG1 NEGATIVE CONTROL (MCA92	<u>8)</u>	
North & South Tel: +1 800 265 7376 Worldwid	de 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 'M408289:221011'

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