

Datasheet: MCA740EL BATCH NUMBER 1711

Description:	MOUSE ANTI HUMAN CD42b:Low Endotoxin
Specificity:	CD42b
Other names:	GPIB-ALPHA
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	AK2
Isotype:	lgG1
Quantity:	0.5 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/prot	-			
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			1/50 - 1/100
	ELISA	-			
	Immunoprecipitation	-			
	Functional Assays	-			
	Where this antibody has	s not been	tested for	r use in a particular teo	chnique this does not
	necessarily exclude its u	use in sucl	h procedu	res. The suggested wo	orking dilution is given
	as a guide only. It is rec		•		v
	own system using appro				
Target Species	Human				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG prepared by supernatant	y affinity c	hromatog	raphy on Protein G fro	m tissue culture
Buffer Solution	Phosphate buffered sali	ne			
Preservative Stabilisers	None present				
Carrier Free	Yes				

Endotoxin Level	< 0.01 EU/ug
Approx. Protein Concentrations	IgG concentration 1 mg/ml
External Database Links	UniProt: P07359 Related reagents Entrez Gene: 2811 GP1BA Related reagents
RRID	AB_2232663
Specificity	Mouse anti Human CD42b antibody, clone AK2 recognizes the human CD42b cell surface antigen, also known as platelet glycoprotein GP1B.
	CD42b is expressed by platelets and megakaryocytes. Clone AK2 has been reported to block the binding of von Willebrand Factor (VWF) to platelets.
Flow Cytometry	Use 10ul of the suggested working dilution to label 100ul whole blood.
References	 Ward, C.M. & Berndt, M.C. (1995) Epitope and functional characterization of the CD42 (gplb/IX) mAb panel. Leucocyte Typing V. White Cell Differentiation Antigens. Volume Two. Oxford University Press, Oxford. Burgess, J.K. <i>et al.</i> (1998) Quinine-dependent antibodies bind a restricted set of epitopes on the glycoprotein Ib-IX complex: characterization of the epitopes. <u>Blood. 92</u>: 2366-73. Burgess, J.K. <i>et al.</i> (2000) Rifampicin-dependent antibodies bind a similar or identical epitope to glycoprotein IX-specific quinine-dependent antibodies. <u>Blood. 95</u>: 1988-92. Jayo, A. <i>et al.</i> (2010) L718P mutation in the membrane-proximal cytoplasmic tail of beta 3 promotes abnormal alpha IIb beta 3 clustering and lipid microdomain coalescence, and associates with a thrombasthenia-like phenotype. <u>Haematologica. 95</u>: 1158-66. Lova, P. <i>et al.</i> (2004) Contribution of protease-activated receptors 1 and 4 and glycoprotein Ib-IX-V in the G(i)-independent activation of platelet Rap1B by thrombin. J <u>Biol Chem. 279: 25299-306</u>. Shen, Y. <i>et al.</i> (2000) Requirement of leucine-rich repeats of glycoprotein (GP) Ibalpha for shear-dependent and static binding of von Willebrand factor to the platelet membrane GP Ib-IX-V complex. <u>Blood. 95: 903-10</u>. Wright, S.D. <i>et al.</i> (1993) Double heterozygosity for mutations in the platelet glycoprotein IX gene in three siblings with Bernard-Soulier syndrome. <u>Blood. 81: 2339-47</u>. Nomura, S. <i>et al.</i> (2008) Platelets undergo phosphorylation of Syk at Y525/526 and Y352 in response to pathophysiological shear stress. <u>Am J Physiol Cell Physiol. 295: C1045-54</u>. Balduini, A. <i>et al.</i> (2008) Adhesive receptors, extracellular proteins and myosin IIA orchestrate proplatelet formation by human megakaryocytes. <u>J Thromb Haemost. 6</u>:

	<u>1900-7.</u>				
	11. Amor, N.B. et al. (2009) Acidic-store depletion is required for human platelet				
	aggregation. <u>Blood Coagul Fibrinolysis. 20: 511-6.</u>				
	12. Tasneem, S. <i>et al.</i> (2009) Platelet adhesion to multimerin 1 in vitro: influences of				
	platelet membrane receptors, von Willebrand factor and shear. <u>J Thromb Haemost. 7:</u>				
	<u>685-92.</u>				
	13. Lincoln, B. et al. (2010) Integrated system investigating shear-mediated platelet				
	interactions with von Willebrand factor using microliters of whole blood Anal Biochem.				
	405: 174-83.				
	14. Goetzl EJ et al. (2016) Human plasma platelet-derived exosomes: effects of aspirin.				
	FASEB J. Feb 12. pii: fj.201500150R. [Epub ahead of print]				
	15. Michalska-Jakubus, M. <i>et al.</i> (2016) Plasma endothelial microparticles reflect the				
	extent of capillaroscopic alterations and correlate with the severity of skin involvement in				
	systemic sclerosis. <u>Microvasc Res. Nov 23. pii: S0026-2862(16)30097-8. [Epub ahead of</u>				
	print]				
	16. Ralph, A. <i>et al.</i> (2016) Computational Tracking of Shear-Mediated Platelet Interactions				
	with von Willebrand Factor. <u>Cardiovasc Eng Technol. 7 (4): 389-405.</u>				
	17. Rossi, E. <i>et al.</i> (2017) Human endoglin as a potential new partner involved in platelet-				
	endothelium interactions. Cell Mol Life Sci. Oct 28 [Epub ahead of print].				
Storage	Store at -20°C.				
	Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing				
	as this may denature the antibody. Should this product contain a precipitate we				
	recommend microcentrifugation before use.				
Guarantee	12 months from date of despatch				
Health And Safety	Material Safety Datasheet documentation #10162 available at:				
Information	https://www.bio-rad-antibodies.com/SDS/MCA740EL				
	10162				
Regulatory	For research purposes only				

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)	<u>FITC</u>		
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,		
	DyLight®650, DyLight®680, DyLight®800,		
	<u>FITC, HRP</u>		
Goat Anti Mouse IgG (STAR77)	HRP		
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP		
Rabbit Anti Mouse IgG (STAR13)	HRP		

Rabbit Anti Mouse IgG (STAR9...) FITC

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Low Endotoxin (MCA928EL)

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@bi	o-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 M368856:200529'

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