Datasheet: MCA2748 BATCH NUMBER 160795

Description:	RAT ANTI MOUSE CD36			
Specificity:	CD36			
Other names:	GPIV (IIIb)			
Format:	Purified			
Product Type:	Monoclonal Antibody			
Clone:	MF3			
Isotype:	lgG2a			
Quantity:	0.25 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-rad-antibodies.com/protocols</u>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	-			Neat - 1/25
Immunohistology - Frozen			•	
Immunohistology - Paraffin				
ELISA			•	
Immunoprecipitation				
Western Blotting				
Immunofluorescence				

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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)

Carrier Free	Yes			
Approx. Protein Concentrations	IgG concentration 1.0mg/ml			
Immunogen	IL-4 treated murine thioglycollate-elicited peritoneal macrophages			
External Database Links	UniProt: <u>Q08857</u> <u>Related reagents</u> Entrez Gene: <u>12491</u> Cd36 <u>Related reagents</u>			
RRID	AB_2072640			
Fusion Partners	Spleen cells from immunised DA rats were fused with cells of the Y3Ag 1.2.3 myeloma			
	cell line			
Specificity	Rat anti Mouse CD36 antibody, clone MF3 recognizes mouse CD36, also known as platelet glycoprotein 4, glycoprotein IIIb or PAS IV. CD36 is an ~85 kDa multipass transmembrane glycoprotein primarily expressed on platelets, monocytes/macrophages, smooth muscle and endothelial cells. The CD36 molecule is type B scavenger receptor, which binds to multiple ligands including thrombospondin, anionic phospholipids, oxidized low density lipoproteins and long chain fatty acids. CD36 has diverse functions and is reported to play a role in innate immunity, platelet adhesion/aggregation and long chain fatty acid transport. The CD36 molecule also directly mediates cytoadhesion of erythrocytes infected with <i>Plasmodium falciparum</i> , and may be involved in the development of atherosclerotic lesions and the formation of foam cells. Rat anti Mouse CD36 antibody, clone MF3 has been shown to inhibit IL-4 induced thioglycollate-elicited peritoneal macrophage fusion and significantly block IL-4/GM-CSF-induced bone-marrorw derived macrophage fusion.			
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.			
References	 Helming, L. <i>et al.</i> (2009) The scavenger receptor CD36 plays a role in cytokine-induced macrophage fusion. J Cell Sci. 122 (Pt 4): 453-9. Mwaikambo, B.R. <i>et al.</i> (2009) Hypoxia up-regulates CD36 expression and function via hypoxia-inducible factor-1- and phosphatidylinositol 3-kinase-dependent mechanisms. J Biol Chem. 284: 26695-707. Yang, C.N. <i>et al.</i> (2011) Mechanism mediating oligomeric Aβ clearance by naïve primary microglia. Neurobiol Dis. 42 (3): 221-30. Seeds, R.E. <i>et al.</i> (2011) The role of myeloid receptors on murine plasmacytoid dendritic cells in induction of type I interferon. Int Immunopharmacol. 11: 794-801. Samovski, D. <i>et al.</i> (2012) Insulin and AMPK regulate FA translocase/CD36 plasma membrane recruitment in cardiomyocytes via Rab GAP AS160 and Rab8a Rab GTPase. J 			

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Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16)	DyLight®800
Rabbit Anti Rat IgG (STAR17)	<u>FITC</u>
Goat Anti Rat IgG (STAR72)	<u>HRP</u>
Goat Anti Rat IgG (STAR69)	<u>FITC</u>

Goat Anti Rat IgG (STAR73...)RPERabbit Anti Rat IgG (STAR21...)HRPGoat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)DyLight®550, DyLight®650, DyLight®800Goat Anti Rat IgG (STAR131...)Alk. Phos., BiotinRecommended Negative ControlsRAT IgG2a NEGATIVE CONTROL (MCA1212)

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 'M383978:210513'

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