

Datasheet: MCA1075FT BATCH NUMBER 149481

Description:	MOUSE ANTI HUMAN CD32:FITC
Specificity:	CD32
Other names:	FcRII
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	AT10
Isotype:	lgG1
	igor

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 - 1/10			
	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: Dog, Rhesus Monkey, Pig N.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 conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
Max Ex/Em	Fluorophore FITC	Excitation Max (nm 490) Emission Max (nm) 525				
Preparation	Purified IgG prepared by affinity chromatography on Protein A						
Buffer Solution	Phosphate buffered saline						

Preservative Stabilisers	0.09% Sodium Azide			
	1% Bovine Serum Albumin			
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml			
Immunogen	K562 cell line.			
External Database Links	UniProt:P12318Related reagentsP31994Related reagentsP31995Related reagentsEntrez Gene:2212FCGR2ARelated reagents2213FCGR2BRelated reagents9103FCGR2CRelated reagents			
Synonyms	CD32, FCG2, FCGR2A1, IGFR2			
RRID	AB_2103582			
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.			
Specificity	Mouse anti Human CD32 antibody, clone AT10 recognizes the human CD32 antigen, a ~40 kDa glycoprotein that acts as a low affinity receptor for IgG (also known as Fc gamma RII). CD32 mediates several functions including endocytosis, activation of secretion, cytotoxicity and immunomodulation. CD32 is expressed by B cells, monocytes, granulocytes and platelets. Mouse anti Human CD32 antibody, clone AT10 blocks the binding of IgG to Fc gamma RII			
	(<u>Larsson <i>et al.</i> 1997</u>).			
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole blood			
References	 Van Den Herik-Oudijk, I.E. <i>et al.</i> (1994) Functional analysis of human Fc gamma RII (CD32) isoforms expressed in B lymphocytes. <u>J Immunol. 152 (2): 574-85.</u> Lilliehöök, I. <i>et al.</i> (1998) Expression of adhesion and Fcgamma-receptors on canine blood eosinophils and neutrophils studied by anti-human monoclonal antibodies. <u>Vet Immunol Immunopathol. 61 (2-4): 181-93.</u> Larsson M <i>et al.</i> (1997) Human dendritic cells handling of binding, uptake and degradation of free and IgG-immune complexed dinitrophenylated human serum albumin <i>in vitro</i>. <u>Immunology. 90 (1): 138-46.</u> Mold, C. and Du Clos, T.W. (2006) C-reactive protein increases cytokine responses to <i>Streptococcus pneumoniae</i> through interactions with Fc gamma receptors. <u>J Immunol.</u> 			

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17. Liu M *et al.* (2011) Vitellogenin mediates phagocytosis through interaction with FcγR. <u>Mol Immunol. 49 (1-2): 211-8.</u>

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Kahn, F. *et al.* (2008) Antibodies against a surface protein of *Streptococcus pyogenes* promote a pathological inflammatory response. <u>PLoS Pathog. 4 (9): e1000149.</u>
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macrophages ex vivo. PLoS One. 14 (10): e0223264.

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Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and
should be protected from light.Avoid repeated freezing and thawing as this may denature the antibody. Should this
product contain a precipitate we recommend microcentrifugation before use.Guarantee12 months from date of despatchHealth And Safety
InformationMaterial Safety Datasheet documentation #10041 available at:
https://www.bio-rad-antibodies.com/SDS/MCA1075FT
10041RegulatoryFor research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: FITC (MCA928F)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

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-r	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 'M364738:200529'

Printed on 18 Jan 2024

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