Datasheet: MCA2184F BATCH NUMBER 1013R

Description:MOUSE ANTI HUMAN CD3:FITCSpecificity:CD3Format:FITCProduct Type:Monoclonal AntibodyClone:MEM-57Isotype:IgG2aQuantity:0.1 mg		
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Clone:MEM-57Isotype:IgG2a	Format:	FITC
Isotype: IgG2a	Product Type:	Monoclonal Antibody
	Clone:	MEM-57
Quantity: 0.1 mg	Isotype:	lgG2a
	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	•			1/10		
	Where this antibody has not been tested for use in a particular technique this does not						
	•	ommended that	the use	er titrates the antibody	ng dilutions are given as for use in their own		
Target Species	Human						
Species Cross	Reacts with: Chimpan	zee					
Reactivity	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	Excitation Ma	x (nm)	Emission Max (nm)			
	FITC	490		525			
Preparation	Purified IgG prepared by affinity chromatography on Protein A.						
Buffer Solution	Phosphate buffered sa	aline					

Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin				
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml				
External Database Links	UniProt: P04234 Related reagents P07766 Related reagents P09693 Related reagents Entrez Gene: 915 CD3D Related reagents				
	916 CD3E Related reagents 917 CD3G Related reagents				
Synonyms	T3D, T3E, T3G				
RRID	AB_324176				
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the P3/NS1/1-Ag4-1 mouse myeloma cell line.				
	Mouse anti Human CD3 (MEM-57) is a monoclonal antibody recognizing an extracellular epitope of the human CD3 complex containing either δ - ϵ or γ - ϵ subunit complexes (<u>Dave et al. 1997</u>). Mouse anti Human CD3 (MEM-57) recognizes a conformational CD3 epitope minimally requiring the presence of the CD3 ϵ subunit extracellular domain (<u>Transy et al. 1989</u>) as it will recognize murine 3D054.8 hybridoma cells transfected with cDNA to express the human CD ϵ subunit lacking its cytoplasmic domain. CD3 serves as a pan T cell marker, it is expressed on the surface of over 95% of circulating human peripheral T cells. CD3 is also present on ~60-80% of thymocytes and on Purkinji cells, neurons present in the cerebellar cortex. CD3 is not expressed on B cells or NK cells.				
Specificity	epitope of the human CD3 complex containing either δ - ϵ or γ - ϵ subunit complexes (Dave et al. 1997). Mouse anti Human CD3 (MEM-57) recognizes a conformational CD3 epitope minimally requiring the presence of the CD3 ϵ subunit extracellular domain (Transy et al. 1989) as it will recognize murine 3D054.8 hybridoma cells transfected with cDNA to express the human CD ϵ subunit lacking its cytoplasmic domain. CD3 serves as a pan T cell marker, it is expressed on the surface of over 95% of circulating human peripheral T cells. CD3 is also present on ~60-80% of thymocytes and on Purkinji cells, neurons				
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Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul or 100ul whole blood.
References	 Horejsí, V. <i>et al.</i> (1988) Monoclonal antibodies against human leucocyte antigens. II. Antibodies against CD45 (T200), CD3 (T3), CD43, CD10 (CALLA), transferrin receptor (T9), a novel broadly expressed 18-kDa antigen (MEM-43) and a novel antigen of restricted expression (MEM-74). <u>Folia Biol (Praha). 34 (1): 23-34.</u> Dave, V.P. <i>et al.</i> (1998) Altered functional responsiveness of thymocyte subsets from CD3delta-deficient mice to TCR-CD3 engagement. <u>Int Immunol. 10: 1481-90.</u> Transy, C. <i>et al.</i> (1989) Most anti-human CD3 monoclonal antibodies are directed to the CD3 epsilon subunit. <u>Eur J Immunol. 19: 947-50.</u> Amlot, P.L. <i>et al.</i> (1996) Activation antigen expression on human T cells. I. Analysis by two-colour flow cytometry of umbilical cord blood, adult blood and lymphoid tissue. <u>Clin Exp Immunol. 105: 176-82.</u> Gunnlaugsdottir, B. <i>et al.</i> (2008) Naive human T-cells become non-responsive towards anti-TNFalpha (infliximab) treatment in vitro if co-stimulated through CD28. <u>Scand J Immunol. 68: 624-34.</u> Morris, R.J. <i>et al.</i> (2005) A high-efficiency system of natural killer cell cloning. <u>J Immunol Methods. 307: 24-33.</u> Bughani U <i>et al.</i> (2017) T cell activation and differentiation is modulated by a CD6 domain 1 antibody Itolizumab. <u>PLoS One. 12 (7): e0180088.</u>
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.
Guarantee	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2184F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL:FITC (MCA929F)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-ra	Worldwide ad.com	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-r	Europe ad.com	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-ra	To ^{d.} ფეუკე
batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M352845:190408'						S

Printed on 18 Jan 2024

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