

Datasheet: MCA2126F

Description:	MOUSE ANTI HUMAN CD58:FITC
Specificity:	CD58
Other names:	LFA-3
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	MEM-63
Isotype:	IgG1
Quantity:	100 TESTS/2ml

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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

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		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography on Protein A		
Buffer Solution	TRIS buffered saline		
Preservative Stabilisers	0.09% Sodium Azide		
External Database Links	UniProt: P19256 Related reagents		
	Entrez Gene: 965 CD58 Related reagents		
Synonyms	LFA3		

Specificity	Mouse anti Human CD58 antibody, clone MEM-63 recognizes human CD58, also known as LFA-3. CD58 is a membrane glycoprotein of ~55-70 kDa. It occurs in two forms, one transmembrane with a cytoplasmic domain, the other form anchored in the membrane via a glycosylphosphatidylinositol tail. The complete amino acid sequence of both forms has been deduced from cDNA. CD58 is a heavily N-glycosylated cell adhesion molecule which plays a critical role in facilitation of antigen specific recognition through interaction with CD2 on T lymphocytes (Makgoba <i>et al.</i> 1989). CD58 has a wide tissue distribution, being present on erythrocytes, platelets, monocytes, a subset of lymphocytes, bone marrow cells, epithelium and endothelial cells. There are approximately 5,000 CD58 molecules on each erythrocyte. There is reduced expression of CD58 on haemopoietic cells in individuals with paroxysmal nocturnal haemoglobinuria.
Flow Cytometry	Use 20ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none">1. Makgoba, M.W. <i>et al.</i> (1989) The CD2-LFA-3 and LFA-1-ICAM pathways: relevance to T-cell recognition. Immunol Today. 10 (12): 417-22.2. Shaw, S., Johnson, J.P., (1989) In Leucocyte Typing IV: White Cell Differentiation Antigens. Edited by Knapp, W., Dorken, B., Gilks, W.R., Rieber, E.P., Schmidt, R.E., Stein, H. and von dem Borne, A.E.G.Kr. Oxford University Press. pp 714-716.3. Grundy, J.E. <i>et al.</i> (1993) Increased adherence of CD2 peripheral blood lymphocytes to cytomegalovirus-infected fibroblasts is blocked by anti-LFA-3 antibody. Immunology. 78 (3): 413-20.4. Megyola, C. <i>et al.</i> (2011) Identification of a sub-population of B cells that proliferates after infection with Epstein-Barr virus. Virology. 438 (2): 284-291.
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	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10057 available at: 10057: https://www.bio-rad-antibodies.com/uploads/MSDS/10057.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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