

Datasheet: MCA912B

Description:	MOUSE ANTI HUMAN CD58:Biotin		
Specificity:	CD58		
Other names:	LFA-3		
Format:	Biotin		
Product Type:	Monoclonal Antibody		
Clone:	BRIC5		
lsotype:	lgG2a		
Quantity:	0.1 mg		

Product Details

Applications	•	This product has been reported to work in the following applications. This information is derived						
	•				• •	sonal communications from		
	the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.							
	recommende		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometr	ry	•			1/10		
	Western Blotti	ng (1)	•					
	Where this a	ntibody has no	ot been tes	ted for use	in a particular techn	ique this does not necessarily		
	exclude its u	ise in such pro	cedures. S	Suggested v	vorking dilutions are	given as a guide only. It is		
	recommende	ed that the use	er titrates th	ne antibody	for use in their own	system using appropriate		
	negative/pos	itive controls.						
	(1)This antil conditions.	body binds a	broadly m	igrating co	omponent of 40-65 l	<da non-reducing<="" th="" under=""></da>		
Target Species	Human							
Product Form	Purified IgG	Purified IgG conjugated to Biotin - liquid						
Preparation	Purified IgG	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate b	Phosphate buffered saline						
Preservative	0.1% Sodiur	n Azide (NaN ₃)					
Stabilisers	1% Bovine Serum Albumin							
Approx. Protein Concentrations	IgG concent	IgG concentration 1.0 mg/ml						
Immunogen	Human eryth	Human erythrocytes.						
External Database	UniProt:							
Links		Deleted	a a m ta					
	<u>P19256</u>	Related rea	igents					

Entrez Gene:

965	CD58	Related reagents
305	0000	Related reagents

	<u>305</u> CD30 <u>Related reagents</u>				
Synonyms	LFA3				
Specificity	Mouse anti Human CD58 antibody, clone BRIC5 recognizes human Lymphocyte function- associated antigen 3, also known as CD58 or LFA-3. CD58 is a 250 amino acid single pass type I transmembrane glycoprotein, a member of the immunoglobulin superfamily, with a predicted molecular mass of 28.1 kDa and an apparent molecular mass of ~55-70 kDa. CD58 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 and is heavily N-glycosylated. CD58 is a 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.				
	Mouse anti Human CD58 antibody, clone BRIC5 was produced in response to erythrocytes. The functional affinity of BRIC5 binding to erythrocytes is $4 \times 10^8 \text{ M}^{-1}$. It reacts by immunoblotting to non-reduced erythrocyte membranes. BRIC5 is an indirect haemagglutinin. The antigen on erythrocytes is pronase sensitive. BRIC5 inhibits T cell rosetting.				
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.				
References	 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. Shaw, S. and 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. 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. Bottley, G. <i>et al.</i> (2005) Differential expression of LFA-3, Fas and MHC Class I on Ad5- and Ad12-transformed human cells and their susceptibility to lymphokine-activated killer (LAK) cells. Virology. 338 (2): 297-308. Bergmann-leitner, E.S. & Abrams, S.I. (2000) Differential role of Fas/Fas ligand interactions in cytolysis of primary and metastatic colon carcinoma cell lines by human antigen-specific CD8+ CTL. J Immunol. 164 (9): 4941-54. Abbate, I. <i>et al.</i> (2005) Cell membrane proteins and quasispecies compartmentalization of CSF and plasma HIV-1 from aids patients with neurological disorders. Infect Genet Evol. 5 (3): 247-53. Fletcher, J.M. <i>et al.</i> (1998) Natural killer cell lysis of cytomegalovirus (CMV)-infected cells correlates with virally induced changes in cell surface lymphocyte function-associated antigen-3 (LFA-3) expression and not with the CMV-induced down-regulation of cell surface class I HLA. J Immunol. 161 (5): 2365-74. Oerboni, C. <i>et al.</i> (2000) Human cytomegalovirus strain-dependent changes in NK cell recognition of infected fibroblasts. J Immunol. 164 (9): 4775-82. Pandolfino, M.C. <i>et al.</i> (2010) Comparison of three culture media for the establishment of melanoma cell lines. Cytotechnology. 62 (5): 403-12. Kato, T. <i>et al.</i> (2002) Salivary cystatins induce interleukin-6 expression via cell surface				

	molecules in human gingival fibroblasts. <u>Mol Immunol. 39 (7-8): 423-30.</u> 12. Kanuga, N. <i>et al.</i> (2002) Characterization of genetically modified human retinal pigment epithelial cells developed for <i>in vitro</i> and transplantation studies. <u>Invest Ophthalmol Vis Sci. 43 (2):</u> <u>546-55.</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. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10304 available at: 10304: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10304.pdf</u>
Regulatory	For research purposes only

Related Products

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	-rad.com	Email: antibody_sales_uk@bio	o-rad.com	Email: antibody_sales_de@bio-rad.com

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