

Datasheet: MCA912

Description:	MOUSE ANTI HUMAN CD58
Specificity:	CD58
Other names:	LFA-3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	BRIC5
Isotype:	lgG2a
Quantity:	0.2 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	•			1/10
	Immunohistology - Frozen		-		
	Immunohistology - Paraffin		•		
	ELISA				
	Immunoprecipitation			•	
	Western Blotting	-			
	necessarily exclude its u a guide only. It is recomm system using appropriate	mended th	nat the us	er titrates the product f	•
Target Species	Human				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant				
Buffer Solution	TRIS buffered glycine				
Preservative	<0.1% Sodium Azido (Na	-N-)			

Stabilisers <0.1% Sodium Azide (NaN₃)

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml		
Immunogen	Human erythrocytes.		
External Database Links	UniProt: P19256 Related reagents Entrez Gene: 965 CD58 Related reagents		
Synonyms	LFA3		
RRID	AB_321506		
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.		
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. <u>Immunol Today. 10 (12): 417-22.</u> 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. <u>Immunology. 78</u> (<u>3): 413-20.</u> 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. 5. 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. 6. Cerboni, C. <i>et al.</i> (2000) Human cytomegalovirus strain-dependent changes in NK cell recognition of infected fibroblasts. J Immunol. 164 (9): 4775-82. 7. Abbate, I. <i>et al.</i> (2001) Changes in host cell molecules acquired by circulating HIV-1 in patients treated with highly active antiretroviral therapy and interleukin-2. AIDS. 15 (1): 11-6. 8. Kato, T. <i>et al.</i> (2002) Salivary cystatins induce interleukin-6 expression via cell surface molecules in human gingival fibroblasts. Mol Immunol. 39 (7-8): 423-30. 9. Kanuga, N. <i>et al.</i> (2005) Characterization of genetically modified human retinal pigment epithelial cells developed for <i>in vitro</i> and transplantation studies. Invest Ophthalmol Vis Sci. 43 (2): 546-55. 10. 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. <u>Virology. 338 (2): 297-308.</u> 11. 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. 12. Pandolfino, M.C. <i>et al.</i> (2010) Comparison of three culture media for the establishment of melanoma cell lines. <u>Cytotechnology. 62 (5): 403-12.</u>
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10072 available at: https://www.bio-rad-antibodies.com/SDS/MCA912 10072
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77)	<u>HRP</u>		
Rabbit Anti Mouse IgG (STAR12)	RPE		
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>		
Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>			

Goat Anti Mouse IgG (STAR76)	RPE
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP
Rabbit Anti Mouse IgG (STAR13)	HRP
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>
Goat Anti Mouse IgG (H/L) (STAR117)	<u>Alk. Phos.</u> , <u>DyLight®488</u> , <u>DyLight®550</u> ,
	DyLight®650, DyLight®680, DyLight®800,
	<u>FITC</u> , <u>HRP</u>

Recommended Negative Controls

MOUSE IgG2a NEGATIVE CONTROL (MCA929)

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-ra	ad.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 'M409315:221018'

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