Datasheet: MCA532T BATCH NUMBER 152037

Description:	MOUSE ANTI HUMAN CD54		
Specificity:	CD54		
Other names:	ICAM-1		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	84H10		
Isotype:	lgG1		
Quantity:	25 µg		

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>.

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		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry				Neat - 1/10		
	Immunohistology - Frozen (1)	•			1/20 - 1/50		
	Immunohistology - Paraffin						
	ELISA	-					
	Immunoprecipitation	-			5ug / 10e7 cells		
	Western Blotting			•			
	Functional Assays (2)	-					
	Where this antibody has	Where this antibody has not been tested for use in a particular technique this does not					
	necessarily exclude its us	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					
	a guide only. It is recomm						
	system using appropriate						
		sensitive to					
	(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the u						
	acetone fixation for frozen sections.						
	(2) Removal of sodium azide is recommended prior to use in functional assays.						
	Bio-Rad recommend EC	<u>2U003</u> fo	r this pu	rpose.			
Target Species	Human						
Species Cross	Reacts with: Dog						
Reactivity	N.B. Antibody reactivity a	ind workii	ng condit	ions may vary betweer	n 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 - liquid		
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide		
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml		
Immunogen	K562 cell line.		
External Database Links	UniProt: P05362 Related reagents Entrez Gene: 3383 ICAM1 Related reagents		
RRID	AB_2233402		
RRID Fusion Partners	AB_2233402 Spleen cells from immunised BALB/c mice were fused with cells of the MOPC 315 mouse myeloma cell line.		
	Spleen cells from immunised BALB/c mice were fused with cells of the MOPC 315 mouse		
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the MOPC 315 mouse myeloma cell line.		
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the MOPC 315 mouse myeloma cell line. Mouse anti Human CD54 antibody, clone 84H10 recognizes the D1 domain of ICAM-1. It reacts with the ICAM-1 antigen found in low levels on lymphocytes and strongly expressed on monocytes and granulocytes. This molecule is inducible to high levels by mitogenic lectins on lymphocytes and by IL-1 beta or IFN gamma on other cell types such as fibroblasts and endothelial cells. Mouse anti Human CD54 antibody, clone 84H10		
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the MOPC 315 mouse myeloma cell line. Mouse anti Human CD54 antibody, clone 84H10 recognizes the D1 domain of ICAM-1. It reacts with the ICAM-1 antigen found in low levels on lymphocytes and strongly expressed on monocytes and granulocytes. This molecule is inducible to high levels by mitogenic lectins on lymphocytes and by IL-1 beta or IFN gamma on other cell types such as fibroblasts and endothelial cells. Mouse anti Human CD54 antibody, clone 84H10 detects an antigen of ~90 kDa. Mouse anti Human CD54 antibody, clone 84H10 has been reported to block ICAM1		
Fusion Partners	 Spleen cells from immunised BALB/c mice were fused with cells of the MOPC 315 mouse myeloma cell line. Mouse anti Human CD54 antibody, clone 84H10 recognizes the D1 domain of ICAM-1. It reacts with the ICAM-1 antigen found in low levels on lymphocytes and strongly expressed on monocytes and granulocytes. This molecule is inducible to high levels by mitogenic lectins on lymphocytes and by IL-1 beta or IFN gamma on other cell types such as fibroblasts and endothelial cells. Mouse anti Human CD54 antibody, clone 84H10 has been reported to block ICAM1 mediated cellular adhesion and block binding of LFA-1 and <i>P. falciparum</i> to ICAM-1. Mouse anti Human CD54 antibody, clone 84H10 is routinely tested in flow cytometry on 		

	 Damle, N.K. <i>et al.</i> (1992) Intercellular adhesion molecule-2, a second counter-receptor for CD11a/CD18 (leukocyte function-associated antigen-1), provides a costimulatory signal for T-cell receptor-initiated activation of human T cells. J Immunol. 148 (3): 665-71. de Fougerolles, A.R. & Springer, T.A. (1992) Intercellular adhesion molecule 3, a third adhesion counter-receptor for lymphocyte function-associated molecule 1 on resting lymphocytes. J Exp Med. 175 (1): 185-90. Galkowska, H. <i>et al.</i> (1996) Reactivity of antibodies directed against human antigens with surface markers on canine leukocytes. Vet Immunol Immunopathol. 53 (3-4): 329-34. Rothlein, R. <i>et al.</i> (1986) A human intercellular adhesion molecule (ICAM-1) distinct from LFA-1. J Immunol. 137 (4): 1270-4. Dustin, M.L. <i>et al.</i> (1986) Induction by IL 1 and interferon-gamma: tissue distribution, biochemistry, and function of a natural adherence molecule (ICAM-1). J Immunol. 137 (1): 245-54. Simmons, D. <i>et al.</i> (1988) ICAM, an adhesion ligand of LFA-1, is homologous to the neural cell adhesion molecule NCAM. Nature. 331 (6157): 624-7. Berendt, A.R. <i>et al.</i> (1992) The binding site on ICAM-1 for <i>Plasmodium falciparum</i>- infected erythrocytes overlaps, but is distinct from, the LFA-1-binding site. <u>Cell. 68 (1)</u>: <u>71-81.</u> Dyugovskaya, L. <i>et al.</i> (2002) Increased adhesion molecules expression and production of mactive ownession in leukostop of alcon paper patients. Am. J Deepis Orit Core
	 of reactive oxygen species in leukocytes of sleep apnea patients. <u>Am J Respir Crit Care</u> <u>Med. 165: 934-9.</u> 10. Bergmann-Leitner, E.S. <i>et al.</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. <u>J Immunol. 164: 4941-54.</u> 11. Salvatierra, A. <i>et al.</i> (2001) Antithrombin III prevents early pulmonary dysfunction after
	 lung transplantation in the dog. <u>Circulation. 104: 2975-80.</u> 12. Jonsson, A.S. and Palmblad, J.E. (2001) Effects of ethanol on NF-kappaB activation, production of myeloid growth factors, and adhesive events in human endothelial cells. <u>J</u> <u>Infect Dis. 184: 761-9.</u> 13. Chen, P.Y. <i>et al.</i> (2015) Endothelial-to-mesenchymal transition drives atherosclerosis progression. <u>J Clin Invest. 125 (12): 4514-28.</u> 14. Salipante, S.J. <i>et al.</i> (2016) Recurrent somatic loss of TNFRSF14 in classical Hodgkin lymphoma. <u>Genes Chromosomes Cancer. 55 (3): 278-87.</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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA532T 10040

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>
Goat Anti Mouse IgG (STAR76)	RPE
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>
Rabbit Anti Mouse IgG (STAR13)	HRP
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>
Goat Anti Mouse IgG (STAR77)	HRP
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,
	<u>DyLight®650</u> , <u>DyLight®680</u> , <u>DyLight®800</u> ,
	FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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-ra	ad.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 'M368189:200529'

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