

Datasheet: MCA1615T BATCH NUMBER 165378

MOUSE ANTI HUMAN CD54		
CD54		
ICAM-1		
Purified		
Monoclonal Antibody		
15.2		
lgG1		

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	•			1/50 - 1/100				
	Immunohistology - Frozen				1/50 - 1/100				
	Immunohistology - Paraffin								
	Where this product has n	iot been t	ested for	use in a particular tech	nique this does not				
	necessarily exclude its us	se in sucł	n procedu	res. Suggested workin	g dilutions are given as				
	a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.								
Target Species	Human								
Species Cross Reactivity	Reacts with: Pig N.B. Antibody reactivity a reactivity is derived from personal communications further information.	testing w	ithin our la	aboratories, peer-revie	wed publications or				
Product Form	Purified IgG - liquid								
Preparation	Purified IgG prepared by supernatant	affinity cl	nromatogi	aphy on Protein A fror	n tissue culture				
Buffer Solution	Phosphate buffered salin	е							

Preservative	
Stabilisers	0.09% sodium azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human monocytes
External Database Links	UniProt: <u>P05362</u> <u>Related reagents</u> Entrez Gene: <u>3383</u> ICAM1 <u>Related reagents</u>
RRID	AB_324646
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse Sp2/0-Ag14 myeloma cell line
Specificity	Mouse anti Human CD54 antibody, clone 15.2 recognizes the human CD54 cell surface antigen also known as intracellular Adhesion Molecule -1 (ICAM-1) or Major group rhinovirus receptor.
	CD54 is expressed by many cells following activation by inflammatory mediators. It is a 505 amino acid with an additional 27 amino acid signal peptide ~90 kDa single pass type I transmembrane glycoprotein bearing 5 Ig-like C2-type domains.
	Mouse anti Human CD54 antibody, clone 15.2 blocks CD54 function (<u>Berendt <i>et al.</i> 1992</u>). Mouse anti Human CD54 antibody, clone 15.2 binds to an epitope on the N-terminal Ig-like domain within a region designated the L43 loop (<u>Chakravorty and Craig 2005</u>).
Flow Cytometry	Use 10µl of the suggested working dilution to label 10^6 cells in $100µl$
Histology Positive Control Tissue	Human tonsil
References	 Dransfield, I. <i>et al.</i> (1992) Interaction of leukocyte integrins with ligand is necessary but not sufficient for function. <u>J Cell Biol. 116:1527-35.</u> Berendt, A. <i>et al.</i> (1992) The binding site on ICAM-1 for plasmodium falciparum- infected erythrocytes overlaps, but is distinct from, the LFA-1- binding site. <u>Cell. 68: 71-81.</u> Urquhart, P. <i>et al.</i> (2007) Carbon monoxide-releasing molecules modulate leukocyte- endothelial interactions under flow. <u>J Pharmacol Exp Ther. 321 (2): 656-62.</u> Baratin, M. <i>et al.</i> (2007) Dissection of the role of PfEMP1 and ICAM-1 in the sensing of <i>Plasmodium-falciparum</i>-infected erythrocytes by natural killer cells. <u>PLos One 2: e228.</u> van Buul, J.D. <i>et al.</i> (2010) Inside-out regulation of ICAM-1 dynamics in TNF-alpha- activated endothelium. <u>PLoS One 5: e11336.</u>

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 Lennartz, F. *et al.* (2015) Mapping the Binding Site of a Cross-Reactive *Plasmodium falciparum* PfEMP1 Monoclonal Antibody Inhibitory of ICAM-1 Binding. <u>J Immunol. 195</u> (7): 3273-83.

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StorageThis 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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1615T 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

			_					
Rabbit A	Rabbit Anti Mouse IgG (STAR12) <u>RPE</u>							
Goat Ant	Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>							
Goat Anti Mouse IgG (STAR76) RPE								
Rabbit A	Rabbit Anti Mouse IgG (STAR13) HRP							
Goat Ant	i Mouse IgG (STAR70)	<u>FITC</u>						
Goat Ant	Goat Anti Mouse IgG (H/L) (STAR117) <u>Alk. Phos., DyLight®488</u> , <u>DyLight®550</u> ,							
	DyLight®650, DyLight®680, DyLight®800,							
		<u>FIT</u>	<u>C, HRP</u>					
Rabbit Anti Mouse IgG (STAR9) <u>FITC</u>								
Goat Anti Mouse IgG (STAR77) <u>HRP</u>								
Goat Ant	Goat Anti Mouse IgG (Fc) (STAR120) <u>FITC</u> , <u>HRP</u>							
Recommended Negative Controls								
MOUSE IgG1 NEGATIVE CONTROL (MCA928)								
North & South	Tel: +1 800 265 7376 Worldwid	de	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-	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								
'M410892:221028'								

Printed on 05 Apr 2024

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