Datasheet: MCA1561 BATCH NUMBER 160812

Description:	MOUSE ANTI HUMAN CD154 (CD40L)
Specificity:	CD154
Other names:	CD40 LIGAND
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	TRAP-1
Isotype:	lgG1
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-</u> rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry	•			1/10 - 1/50		
	Immunohistology - Frozen			•			
	Immunohistology - Paraffin						
	ELISA			•			
	Immunoprecipitation						
	Western Blotting						
	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. 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 - liquid						
Preparation	Purified IgG prepared by affinity chromatography on Protein A from ascites						
Buffer Solution	Phosphate buffered saline						
Preservative	<0.1% Sodium Azide (Na	aN ₃)					
Stabilisers	0.1% Bovine Serum Albu	•,					
Approx. Protein	IgG concentration 1.0 mg	g/ml					

Concentrations

Immunogen	Mouse myeloma cell line transfected with human CD40L (CD154)
External Database Links	UniProt: <u>P29965</u> <u>Related reagents</u>
	Entrez Gene: 959 CD40LG <u>Related reagents</u>
Synonyms	CD40L, TNFSF5, TRAP
RRID	AB_321588
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3X63.Ag 8653 myeloma cell line.
Specificity	Mouse anti Human CD154 antibody, clone TRAP-1 recognises the human CD40 ligand, also known as CD154, TNF-related activation protein (TRAP) or T-cell antigen Gp39. CD154 is a 261 amino acid ~32 kDa single pass, type-1 transmembrane glycoprotein (<u>UniProt: P29965</u>). CD154 is expressed on activated T lymphocytes, predominantly CD4 +ve and also on some basophils and mast cells.
	Mouse anti Human CD154 antibody, clone TRAP-1 binds to CD154 at an epitope distinct from the CD40 binding site (<u>Kroczek <i>et al</i>. 1994</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Hermann, P. <i>et al.</i> (1993) Expression of a 32-kDa ligand for the CD40 antigen on activated human T lymphocytes. <u>Eur J Immunol. 23 (4): 961-4.</u> Lane, P. <i>et al.</i> (1992) Activated human T cells express a ligand for the human B cell-associated antigen CD40 which participates in T cell-dependent activation of B lymphocytes. <u>Eur J Immunol. 22 (10): 2573-8.</u> Kroczek, R.A <i>et al.</i> (1994) Defective expression of CD40 ligand on T cells causes "X-linked immunodeficiency with hyper-IgM (HIGM1)". <u>Immunol Rev. 138: 39-59.</u> Houtkamp, M.A. <i>et al.</i> (2001) Interleukin-15 expression in atherosclerotic plaques: an alternative pathway for T-cell activation in atherosclerosis? <u>Arterioscler Thromb Vasc Biol.</u> 21: 1208-13. Yarwood, H. <i>et al.</i> (2000) Resting and activated T cells induce expression of E-selectin and VCAM-1 by vascular endothelial cells through a contact-dependent but CD40 ligand- independent mechanism. <u>J Leukoc Biol. 68: 233-42.</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

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	frost-free freezers is not recommended.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1561 10041
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Ar	nti Mouse IgG (STAR12)	RPE					
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>							
Goat Ant	i Mouse IgG (STAR76)	RPE					
Rabbit Ar	Rabbit Anti Mouse IgG (STAR13) <u>HRP</u>						
Goat Ant	i Mouse IgG (STAR70)	<u>FITC</u>					
Goat Ant	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, HRP</u>					
Rabbit Ar	nti Mouse IgG (STAR9)	<u>FITC</u>					
Goat Ant	i Mouse IgG (STAR77)	HRP					
Goat Anti Mouse IgG (Fc) (STAR120) <u>FITC, HRP</u>							
Recommended Negative Controls							
MOUSE IgG1 NEGATIVE CONTROL (MCA928)							
	Tel: +1 800 265 7376 Worldwi		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-rad.	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 'M390028:210819'							

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