# Datasheet: MCA1561 BATCH NUMBER 170224

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.					
	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 use in such procedures. It is recommended that the user titrates					
	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	IN <sub>3</sub> )				
Stabilisers	0.1% Bovine Serum Albu	min				
Approx. Protein	IgG concentration 1.0 mg	ı/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	<b>Mouse anti Human CD154 antibody, clone TRAP-1</b> 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 <sup>6</sup> cells in 100ul.
References	<ol> <li>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></li> <li>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></li> <li>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></li> <li>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.</li> <li>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></li> </ol>
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	nti 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.</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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