

Datasheet: MCA2756 BATCH NUMBER 162629

Description:	MOUSE ANTI HUMAN CD154 (SOLUBLE)
Specificity:	CD154 (SOLUBLE)
Other names:	CD40 LIGAND, TRAP
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2A3
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			•		
	Immunohistology - Frozen			•		
	Immunohistology - Paraffin					
	ELISA	-				
	Immunoprecipitation			•		
	Western Blotting	-				
	Functional Assays					
	Where this product has not been tested for use in a particular technique this does not					
	necessarily exclude its use in such procedures. Suggested working dilutions are given as					

necessarily exclude its use in such procedures. Suggested working 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	
Product Form	Purified IgG - liquid	
Preparation	Purified IgG prepared by affinity chromatography on Protein A from ti supernatant	ssue culture
Buffer Solution	Phosphate buffered saline	
Preservative	<0.1% Sodium Azide (NaN ₃)	

Stabilisers

Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Recombinant human soluble CD154 conjugated to BSA.
External Database Links	UniProt: <u>P29965</u> <u>Related reagents</u> Entrez Gene:
	959 CD40LG Related reagents
Synonyms	CD40L, TNFSF5, TRAP
RRID	AB_1055611
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the myeloma Sp2/0 cell line.
Specificity	Mouse anti Human CD154 (Soluble) antibody, clone 2A3 recognizes the soluble form of CD154, otherwise known as CD40 Ligand/TRAP, a ~32 kDa glycoprotein and member of the TNF family, which is specifically expressed on activated, but not resting, CD4+ T cells, dendritic cells (DCs), B cells and macrophages.
	CD154 binds CD40, and acts as a key co-stimulatory molecule through the activation of antigen-presenting cells, and as a regulator of the generation and functional properties of Th1 helper cells. CD154 exists in both a membrane-bound and soluble form, the latter of which is generated through proteolytic processing by a matrix metalloproteinase (MMP), in activated cells.
	The binding of CD154 with its receptor CD40 is vital for many biological processes, including Ig class switching, germinal centre formation and the survival of CD40+ B cells, B cell proliferation in the absence of co-stimulus, the production of IgE in the presence of interleukin-4 (IL-4), and also in the production of pro-inflammatory cytokines, MMPs, prostaglandins and adhesion molecule upregulation, in non-immune cells.
	Mouse anti Human CD154 (Soluble) antibody, clone 2A3 recognizes the soluble form of the protein.
References	1. Pietravalle, F. <i>et al.</i> (1996) Human native soluble CD40L is a biologically active trimer, processed inside microsomes. <u>J Biol Chem. 271 (11): 5965-7.</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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2756 10040			
Regulatory	For research purposes only			

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77)	HRP
Rabbit Anti Mouse IgG (STAR12)	RPE
Rabbit Anti Mouse IgG (STAR8)	DyLight®800
Goat Anti Mouse IgG (STAR76)	RPE
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP
Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>
Rabbit Anti Mouse IgG (STAR13)	HRP
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>
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,
	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	id.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 'M389480:210806'

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