

Datasheet: MCA1561

Description:	MOUSE ANTI HUMAN CD154 (CD40L)
Specificity:	CD154
Other names:	CD40 LIGAND
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	TRAP-1
Isotype:	IgG1
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 www.bio-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 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 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 ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

Immunogen Mouse myeloma cell line transfected with human CD40L (CD154)

External Database Links

UniProt:

[P29965](#) [Related reagents](#)

Entrez Gene:

[959](#) CD40LG [Related reagents](#)

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 ([UniProt: P29965](#)). 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 ([Kroczeck et al. 1994](#)).

Flow Cytometry Use 10µl of the suggested working dilution to label 10⁶ cells in 100µl

References

1. Hermann, P. *et al.* (1993) Expression of a 32-kDa ligand for the CD40 antigen on activated human T lymphocytes. [Eur J Immunol. 23 \(4\): 961-4.](#)
 2. Lane, P. *et al.* (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. [Eur J Immunol. 22 \(10\): 2573-8.](#)
 3. Kroczeck, R.A. *et al.* (1994) Defective expression of CD40 ligand on T cells causes "X-linked immunodeficiency with hyper-IgM (HIGM1)". [Immunol Rev. 138: 39-59.](#)
 4. Houtkamp, M.A. *et al.* (2001) Interleukin-15 expression in atherosclerotic plaques: an alternative pathway for T-cell activation in atherosclerosis? [Arterioscler Thromb Vasc Biol. 21: 1208-13.](#)
 5. Yarwood, H. *et al.* (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. [J Leukoc Biol. 68: 233-42.](#)
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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
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1561 10041
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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Printed on 12 Aug 2023