

Datasheet: MCA1561

BATCH NUMBER 163999

| | |
|----------------------|--------------------------------|
| 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 Concentrations | IgG concentration 1.0 mg/ml |
| Immunogen | Mouse myeloma cell line transfected with human CD40L (CD154) |
| External Database Links | <p>UniProt: P29965 Related reagents</p> <p>Entrez Gene: 959 CD40LG Related reagents</p> |
| 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 | <p>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.</p> <p>Mouse anti Human CD154 antibody, clone TRAP-1 binds to CD154 at an epitope distinct from the CD40 binding site (KroczeK et al. 1994).</p> |
| Flow Cytometry | Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl |
| References | <ol style="list-style-type: none"> Hermann, P. <i>et al.</i> (1993) Expression of a 32-kDa ligand for the CD40 antigen on activated human T lymphocytes. Eur J Immunol. 23 (4): 961-4. 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. Eur J Immunol. 22 (10): 2573-8. KroczeK, R.A <i>et al.</i> (1994) Defective expression of CD40 ligand on T cells causes "X-linked immunodeficiency with hyper-IgM (HIGM1)". Immunol Rev. 138: 39-59. Houtkamp, M.A. <i>et al.</i> (2001) Interleukin-15 expression in atherosclerotic plaques: an alternative pathway for T-cell activation in atherosclerosis? Arterioscler Thromb Vasc Biol. 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. J Leukoc Biol. 68: 233-42. |
| 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 #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1561 10041 |
|--------------------------------------|--|

| | |
|-------------------|----------------------------|
| Regulatory | For research purposes only |
|-------------------|----------------------------|

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 |
|----------------------------------|---|------------------|---|---------------|---|

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)
'M410161:221026'

Printed on 12 Aug 2023