

Datasheet: MCA1765GT

BATCH NUMBER 150468

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| Description: | MOUSE ANTI HUMAN CD70 |
| Specificity: | CD70 |
| Other names: | TNFSF7 |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | Bu69 |
| Isotype: | IgG1 |
| Quantity: | 25 µg |

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 | ▪ | | | 1/50 - 1/200 |
| 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. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

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| Target Species | Human |
| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide |

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|--------------------------------|---|
| Carrier Free | Yes |
| Approx. Protein Concentrations | IgG concentration 1.0mg/ml |
| External Database Links | <p>UniProt: P32970 Related reagents</p> <p>Entrez Gene: 970 CD70 Related reagents</p> |
| Synonyms | CD27L, CD27LG, TNFSF7 |
| RRID | AB_2075213 |
| Specificity | <p>Mouse anti Human CD70 antibody, clone Bu69 recognises human CD70, also known as CD27 ligand (CD27-L) or Tumor necrosis factor ligand superfamily member 7. CD70 is a 193 amino acid ~29 kDa single pass type II transmembrane glycoprotein belonging to the tumour necrosis factor (TNF) family (UniProt: P32970).</p> <p>CD70 is expressed on a small number of activated T-cells and the majority of activated B-cells (Bowman et al. 1994). Interaction of CD70 with its receptor, CD27, is thought to play an important role in lymphocyte activation, proliferation, survival and differentiation (Hintzen et al. 1994).</p> <p>Mouse anti Human CD70 antibody, clone Bu69 has been used for the inhibition of neural stem cell induced apoptosis of allogeneic T cells <i>in vitro</i> (Lee et al. 2013).</p> |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. |
| References | <ol style="list-style-type: none"> 1. Garland Publishing. (1997) Leucocyte typing VI. White cell differentiation antigens. p522 - 4 2. Zambello, R. <i>et al.</i> (2000) Analysis of TNF-receptor and ligand superfamily molecules in patients with lymphoproliferative disease of granular lymphocytes. Blood. 96 (2): 647-54. 3. Lee, E.M. <i>et al.</i> (2013) CD70-CD27 ligation between neural stem cells and CD4+ T cells induces Fas-FasL-mediated T-cell death. Stem Cell Res Ther. 4 (3): 56. |
| Storage | <p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p> |
| Guarantee | 18 months from date of despatch. |
| Health And Safety | Material Safety Datasheet documentation #10040 available at: |

Information <https://www.bio-rad-antibodies.com/SDS/MCA1765GT10040>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
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 (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Recommended Negative Controls

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

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| 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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