

Datasheet: MCA1580FT

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| Description: | HAMSTER ANTI MOUSE CD69:FITC |
| Specificity: | CD69 |
| Other names: | AIM |
| Format: | FITC |
| Product Type: | Monoclonal Antibody |
| Clone: | H1.2F3 |
| Isotype: | IgG |
| Quantity: | 0.1 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 | ▪ | | | Neat - 1/10 |
| Immunohistology - Frozen | | | ▪ | |
| Immunohistology - Paraffin | | | ▪ | |

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.

| Target Species | Mouse | | | | | | |
|---------------------------------------|--|-------------------|---------------------|-------------------|------|-----|-----|
| Product Form | Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid | | | | | | |
| Max Ex/Em | <table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table> | Fluorophore | Excitation Max (nm) | Emission Max (nm) | FITC | 490 | 525 |
| Fluorophore | Excitation Max (nm) | Emission Max (nm) | | | | | |
| FITC | 490 | 525 | | | | | |
| Buffer Solution | Phosphate buffered saline | | | | | | |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃) | | | | | | |
| Approx. Protein Concentrations | IgG concentration 0.5 mg/ml. | | | | | | |
| Immunogen | Murine dendritic epidermal Y245 cell line. | | | | | | |
| External Database Links | <p>UniProt:</p> <p>P37217 Related reagents</p> <p>Entrez Gene:</p> | | | | | | |

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| Specificity | Hamster anti Mouse CD69 antibody, clone H1.2F3 recognizes the murine CD69 cell surface antigen, an ~85 kDa dimeric glycoprotein. CD69 is expressed rapidly on the surface of T cells, B cells and NK cells following activation. |
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| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B). |
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| References | <ol style="list-style-type: none">1. Yokoyama, W.M. <i>et al.</i> (1988) Characterization of a cell surface-expressed disulfide-linked dimer involved in murine T cell activation. J Immunol. 141 (2): 369-76.2. Hickman, H.D. <i>et al.</i> (2008) Direct priming of antiviral CD8+ T cells in the peripheral interfollicular region of lymph nodes. Nat Immunol. 9 (2): 155-65.3. Chalifour, A. <i>et al.</i> (2004) Direct bacterial protein PAMP recognition by human NK cells involves TLRs and triggers alpha-defensin production. Blood. 104 (6): 1778-83.4. Cohen-sfady, M. <i>et al.</i> (2005) Heat shock protein 60 activates B cells via the TLR4-MyD88 pathway. J Immunol. 175 (6): 3594-602.5. Iwashiro, M. <i>et al.</i> (2001) Immunosuppression by CD4+ regulatory T cells induced by chronic retroviral infection. Proc Natl Acad Sci U S A. 98 (16): 9226-30.6. Karrer, U. <i>et al.</i> (2003) Memory inflation: continuous accumulation of antiviral CD8+ T cells over time. J Immunol. 170 (4): 2022-9.7. Kvakan, H. <i>et al.</i> (2009) Regulatory T cells ameliorate angiotensin II-induced cardiac damage. Circulation. 119 (22): 2904-12.8. Marshall-clarke, S. <i>et al.</i> (2003) A differential requirement for phosphoinositide 3-kinase reveals two pathways for inducible upregulation of major histocompatibility complex class II molecules and CD86 expression by murine B lymphocytes. Immunology. 109 (1): 102-8.9. Zajac, A.J. <i>et al.</i> (1998) Viral immune evasion due to persistence of activated T cells without effector function. J Exp Med. 188 (12): 2205-13.10. Everitt, A.R. <i>et al.</i> (2012) IFITM3 restricts the morbidity and mortality associated with influenza. Nature. 484: 519-23. |
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| Storage | Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. |
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| Shelf Life | 18 months from date of despatch. |
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| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf |
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| Regulatory | For research purposes only |
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Related Products

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL:FITC \(MCA2356F\)](#)

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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