

Datasheet: MCA1580FT

BATCH NUMBER 165233

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 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	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

UniProt:

[P37217](#) [Related reagents](#)

Entrez Gene:

[12515](#) Cd69 [Related reagents](#)

RRID

AB_2075078

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.

Flow Cytometry

Use 10µl of the suggested working dilution to label 10⁶ cells in 100µl. The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/BUF041B](#)).

References

1. Iwashiro, M. *et al.* (2001) Immunosuppression by CD4+ regulatory T cells induced by chronic retroviral infection. [Proc Natl Acad Sci U S A. 98 \(16\): 9226-30.](#)
 2. Karrer, U. *et al.* (2003) Memory inflation: continuous accumulation of antiviral CD8+ T cells over time. [J Immunol. 170 \(4\): 2022-9.](#)
 3. Marshall-Clarke, S. *et al.* (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.](#)
 4. Chalifour, A. *et al.* (2004) Direct bacterial protein PAMP recognition by human NK cells involves TLRs and triggers alpha-defensin production. [Blood. 104 \(6\): 1778-83.](#)
 5. Cohen-sfady, M. *et al.* (2005) Heat shock protein 60 activates B cells via the TLR4-MyD88 pathway. [J Immunol. 175 \(6\): 3594-602.](#)
 6. Hickman, H.D. *et al.* (2008) Direct priming of antiviral CD8+ T cells in the peripheral interfollicular region of lymph nodes. [Nat Immunol. 9 \(2\): 155-65.](#)
 7. Kvakani, H. *et al.* (2009) Regulatory T cells ameliorate angiotensin II-induced cardiac damage. [Circulation. 119 \(22\): 2904-12.](#)
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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. This product is photosensitive and should be protected from light.

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/MCA1580FT>
10040

Related Products

Recommended Negative Controls

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

Recommended Useful Reagents

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

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

North & South Tel: +1 800 265 7376

America 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

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