

Datasheet: MCA1580C

Description:	HAMSTER ANTI MOUSE CD69:RPE-Cy5
Specificity:	CD69
Other names:	AIM
Format:	RPE-CY5
Product Type:	Monoclonal Antibody
Clone:	H1.2F3
Isotype:	IgG
Quantity:	100 TESTS

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

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 R. Phycoerythrin (RPE) - Cy5 - 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>RPE-Cy5 488nm laser</td> <td>496</td> <td>667</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE-Cy5 488nm laser	496	667
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
RPE-Cy5 488nm laser	496	667					
Buffer Solution	Phosphate buffered saline						
Preservative	0.09% Sodium Azide						
Stabilisers	0.5% Bovine Serum Albumin						
Immunogen	Murine dendritic epidermal Y245 cell line.						
External Database Links	<p>UniProt: P37217 Related reagents</p> <p>Entrez Gene: 12515 Cd69 Related reagents</p>						

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 5ul of the suggested working dilution to label 10⁶cells 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](#)).

References

1. Yokoyama, W.M. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (2005) Heat shock protein 60 activates B cells via the TLR4-MyD88 pathway. [J Immunol. 175 \(6\): 3594-602.](#)
5. 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.](#)
6. Karrer, U. *et al.* (2003) Memory inflation: continuous accumulation of antiviral CD8+ T cells over time. [J Immunol. 170 \(4\): 2022-9.](#)
7. Kvakana, H. *et al.* (2009) Regulatory T cells ameliorate angiotensin II-induced cardiac damage. [Circulation. 119 \(22\): 2904-12.](#)
8. 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.](#)
9. Zajac, A.J. *et al.* (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. *et al.* (2012) IFITM3 restricts the morbidity and mortality associated with influenza. [Nature. 484: 519-23.](#)

Storage

Store at +4°C.

DO NOT FREEZE

This product should be stored undiluted. 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.

Shelf Life

6 months from date of despatch.

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10041 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

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

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

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