

Datasheet: MCA1580PE

Description:	HAMSTER ANTI MOUSE CD69:RPE
Specificity:	CD69
Other names:	AIM
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	H1.2F3
Isotype:	IgG
Quantity:	100 TESTS/0.5ml

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) - liquid								
Max Ex/Em	<table><tr><th>Fluorophore</th><th>Excitation Max (nm)</th><th>Emission Max (nm)</th></tr><tr><td>RPE 488nm laser</td><td>496</td><td>578</td></tr></table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE 488nm laser	496	578		
Fluorophore	Excitation Max (nm)	Emission Max (nm)							
RPE 488nm laser	496	578							
Preparation	Purified IgG prepared by affinity chromatography								
Buffer Solution	Phosphate buffered saline								
Preservative	0.09% Sodium Azide								
Stabilisers	1% Bovine Serum Albumin								
Immunogen	Murine dendritic epidermal Y245 cell line.								
External Database Links	UniProt: P37217Related reagents Entrez Gene: 12515Cd69Related reagents								

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. <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.
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	6 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL:RPE \(MCA2356PE\)](#)

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)
[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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