

Monoclonal Antibody to CD69 - FITC

Alternate names:	AIM, Activation inducer molecule, BL-AC/P26, C-type lectin domain family 2 member C, EA1, Early T-cell activation antigen p60, Early activation antigen CD69, GP32/28, Leu-23, MLR-3
Catalog No.:	SM043F
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	CD69 is expressed rapidly on the surface of T cells, B cells and NK cells following activation.
Uniprot ID:	P37217
NCBI:	NP_001028294.1
GeneID:	12515
Host / Isotype:	Hamster / IgG
Clone:	HI.2F3
Immunogen:	Murine dendritic epidermal Y245 cell line.
Format:	State: Liquid purified IgG fraction Buffer System: PBS containing 0.09% Sodium Azide as preservative Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Use 10 µl of neat-1/10 diluted antibody to label 10e6 cells in 100 µl. 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. This clone is reported to work on Immunohistochemistry on Paraffin Sections . Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes the CD69 cell surface antigen, an 85kD dimeric glycoprotein.
Species Reactivity:	Tested: Mouse.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General 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: 369-376. 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: 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: 1778-83. 4. Cohen-Sfady, M. et al. (2005) Heat shock protein 60 activates B cells via the

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- TLR4-MyD88 pathway. *J Immunol.* 175: 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: 9226-30.
6. Karrer, U. et al. (2003) Memory inflation: continuous accumulation of antiviral CD8+ T cells over time. *J Immunol.* 170: 2022-9.
7. Kvakan, H. et al. (2009) Regulatory T cells ameliorate angiotensin II-induced cardiac damage. *Circulation.* 119: 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: 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: 2205-13.

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