Revision 4

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#90168

CD69 (H1.2F3) Hamster mAb (PE Conjugate)

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP, FC-L	M	Endogenous	Hamster (armenian) IgG	#P37217	12515

Product Usage Information

For optimal flow cytometry results, we recommend 0.5 µg of antibody per test.

Application	Dilution
Flow Cytometry (Fixed/Permeabilized)	1:40
Flow Cytometry (Live)	1:40

Storage

Supplied in 10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH 7.2. This product is stable for 12 months when stored at 4ºC. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity/Sensitivity

CD69 (H1.2F3) Hamster mAb (PE Conjugate) recognizes endogenous levels of total CD69 protein. This antibody detects an epitope within the extracellular domain.

Source / Purification

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.

Description

This Cell Signaling Technology antibody is conjugated to PE and tested in-house for direct flow cytometric analysis in mouse cells.

Background

CD69, also known as Leu-23, is a type II transmembrane glycoprotein that is expressed on the surface of T cells, B cells, and NK cells (1,2). This phosphorylated disulfide-linked 28 to 32-kDa homodimer is constitutively expressed on a subset of thymocytes and platelets. It also acts as an activation antigen of lymphocytes, NK cells, neutrophils, and eosinophils (1-6). Studies have shown that stimulation of the T cell receptor (TCR) increases the expression of CD69 on the cell surface. The ability to detect the level of CD69 expression after TCR activation makes CD69 an ideal indicator of T cell activation (1).
The H1.2F3 antibody is widely used as a marker for T cell activation (7).

Background References

1. Testi, R. et al. (1989) *J Immunol* 142, 1854-60.
2. Marzio, R. et al. (1997) *J Leukoc Biol* 62, 349-55.
3. Lanier, L.L. et al. (1988) *J Exp Med* 167, 1572-85.
4. Testi, R. et al. (1988) *J Immunol* 141, 2557-63.
5. Hartnell, A. et al. (1993) *Immunology* 80, 281-6.
6. Gavioli, R. et al. (1992) *Cell Immunol* 142, 186-96.
7. Sobel, E.S. et al. (1993) *J Immunol* 150, 673-82.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized) **FC-L:** Flow Cytometry (Live)

Cross-Reactivity Key

M: Mouse

Trademarks and Patents

Limited Uses

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