



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at +4C
#28633

CD69 (FN50) Mouse mAb (PerCP-Cy5.5[®] Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

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|------------------------------|-------------------------|-----------------------------------|--|-------------------------------|-------------------------------|
| Applications: FC-L | Reactivity: H | Sensitivity: Endogenous | Source/Isotype: Mouse IgG1 kappa | UniProt ID: #Q07108 | Entrez-Gene Id: 969 |
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| Product Usage Information | Application Flow Cytometry (Live) | Dilution 1:20 |
| Storage | Supplied in 10 mM NaH ₂ PO ₄ , 150 mM NaCl, 0.09% NaN ₃ , 0.1% gelatin, pH 7.2. This product is stable for 6 months when stored at 4°C. <i>Do not aliquot the antibody. Protect from light. Do not freeze.</i> | |
| Specificity/Sensitivity | CD69 (FN50) Mouse mAb (PerCP-Cy5.5 [®] 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 PerCP-Cy5.5 [®] and tested in-house for direct flow cytometric analysis in human 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 FN50 antibody is widely used as a marker for T cell activation (7). | |
| Background References | <ol style="list-style-type: none"> 1. Testi, R. et al. (1989) <i>J Immunol</i> 142, 1854-60. 2. Marzio, R. et al. (1997) <i>J Leukoc Biol</i> 62, 349-55. 3. Lanier, L.L. et al. (1988) <i>J Exp Med</i> 167, 1572-85. 4. Testi, R. et al. (1988) <i>J Immunol</i> 141, 2557-63. 5. Hartnell, A. et al. (1993) <i>Immunology</i> 80, 281-6. 6. Gavioli, R. et al. (1992) <i>Cell Immunol</i> 142, 186-96. 7. Pócsik, E. et al. (1990) <i>Clin Exp Immunol</i> 82, 102-7. | |
| Species Reactivity | Species reactivity is determined by testing in at least one approved application (e.g., western blot). | |
| Applications Key | FC-L: Flow Cytometry (Live) | |
| Cross-Reactivity Key | H: Human | |
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