



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
#29541

CD69 (H1.2F3) Hamster mAb (APC-Cy7[®] Conjugate)

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

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

Product Usage Information

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

Application

Flow Cytometry (Live)

Dilution

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 6 months when stored at 4°C. *Do not aliquot the antibody. Protect from light. Do not freeze.*

Specificity/Sensitivity

CD69 (H1.2F3) Hamster mAb (APC-Cy7[®] 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 APC-Cy7[®] 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-L: Flow Cytometry (Live)

Cross-Reactivity Key

M: Mouse

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

Cy and CyDye are registered trademarks of GE Healthcare.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.