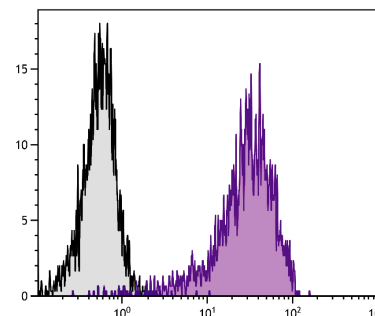




Hamster Anti-Mouse CD69

Cat. No.	Format	Size
1715-01	Purified (UNLB)	0.5 mg
1715-02	Fluorescein (FITC)	0.5 mg
1715-08	Biotin (BIOT)	0.5 mg
1715-09	R-phycoerythrin (PE)	0.1 mg
1715-09L	R-phycoerythrin (PE)	0.2 mg
1715-11	Allophycocyanin (APC)	0.1 mg
1715-13	Spectral Red® (SPRD)	0.1 mg
1715-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
1715-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	0.1 mg
1715-26	Pacific Blue™ (PACBLU)	0.1 mg
1715-30	Alexa Fluor® 488 (AF488)	0.1 mg
1715-31	Alexa Fluor® 647 (AF647)	0.1 mg



PMA and ionomycin stimulated BALB/c mouse splenocytes were stained with Hamster Anti-Mouse CD69-PACBLU (SB Cat. No. 1715-26).

Overview

Clone	H1.2F3
Isotype	Hamster (Armenian) IgG ₁
Immunogen	Mouse dendritic epidermal cell line Y245
Specificity	Mouse CD69; Mr 85 kDa (unreduced)
Alternate Name(s)	VEA, very early activation antigen, AIM, EA1, MLR3, gp34/28, Leu-23

Description

CD69, also known as very early activation (VEA) antigen, is a disulfide-linked transmembrane homodimer whose differentially glycosylated subunits range from 35-39 kDa. It is a C-type lectin most closely related to the NKR-P1 and Ly-49 NK cell-activation molecules. CD69 is widely expressed on hematopoietic cells, including lymphocytes, neutrophils and eosinophils. Although not detectable on resting lymphocytes, its expression is rapidly upregulated upon activation of T, B and NK cells, and neutrophils. Constitutive expression of CD69 on subsets of thymocytes suggests that it may be involved in regulation of developmental events in addition to its role in activation of a variety of hematopoietic cells. The monoclonal antibody H1.2F3 augments PMA-induced T-cell proliferation and induces redirected lysis of Fc receptor-bearing target cells by NK cells.

Applications

FC – Quality tested ^{1,2}
 IHC-FS – Reported in literature ³
 IP – Reported in literature ¹
 Costim – Reported in literature ¹
 Activ – Reported in literature ²

Working Dilutions

Flow Cytometry	FITC, BIOT, and AF488 conjugates	≤ 1 µg/10 ⁶ cells
	PE, APC, SPRD, PE/CY7, AF647, and PACBLU conjugates	≤ 0.2 µg/10 ⁶ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL	
Other Applications	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.	

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The allophycocyanin (APC) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red® (SPRD) and R-phycoerythrin-Cyanine 7 (PE/CY7) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- The Alexa Fluor® 488 (AF488), Alexa Fluor® 647 (AF647), and Pacific Blue™ (PACBLU) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/NaN₃. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

1. Yokoyama WM, Koning F, Kehn PJ, Pereira GM, Stingl G, Coligan JE, et al. Characterization of a cell surface-expressed disulfide-linked dimer involved in murine T cell activation. J Immunol. 1988;141:369-76. (Immunogen, FC, IP, Costim)
2. Karlhofer FM, Yokoyama WM. Stimulation of murine natural killer (NK) cells by a monoclonal antibody specific for the NK1.1 antigen. IL-2-activated NK cells possess additional specific stimulation pathways. J Immunol. 1991;146:3662-73. (FC, Activ)
3. Podd BS, Thoits J, Whitley N, Cheng H, Kudla KL, Taniguchi H, et al. T cells in cryptosporidiosis aggregates share TCR γ variable region junctional sequences with $\gamma\delta$ T cells in the small intestinal epithelium of mice. J Immunol. 2006;176:6532-42. (IHC-FS)

Spectral Red® is a registered trademark of Southern Biotechnology Associates, Inc.

Spectral Red® is a PE/CY5 tandem conjugate.

Cy™ is a trademark of Cytiva or one of its subsidiaries.

Alexa Fluor® 488, 647, 700 and Pacific Blue™ are provided under an agreement between Molecular Probes, Inc. (a wholly owned subsidiary of Invitrogen Corporation), and Southern Biotechnology Associates, Inc., and the manufacture, use, sale or import of this product may be subject to one or more U.S. patents, pending applications, and corresponding non-U.S. equivalents, owned by Molecular Probes, Inc. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes. Commercial Purposes means any activity by a party for consideration and may include, but is not limited to: (1) use of the product or its components in manufacturing; (2) use of the product or its components to provide a service, information, or data; (3) use of the product or its components for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the product or its components, whether or not such product or its components are resold for use in research. For information on purchasing a license to this product for any other use, contact Molecular Probes, Inc., Business Development, 29851 Willow Creek Road, Eugene, OR 97402, USA, Tel: (541) 465-8300. Fax: (541) 335-0504.