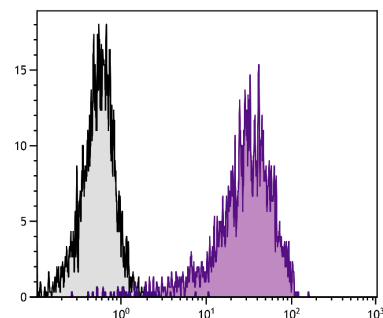




## Hamster Anti-Mouse CD69

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 <sup>®</sup> (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 <sup>™</sup> (PACBLU)	0.1 mg
1715-30	Alexa Fluor <sup>®</sup> 488 (AF488)	0.1 mg
1715-31	Alexa Fluor <sup>®</sup> 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

<b>Clone</b>	H1.2F3
<b>Isotype</b>	Hamster (Armenian) IgG <sub>1</sub>
<b>Immunogen</b>	Mouse dendritic epidermal cell line Y245
<b>Specificity</b>	Mouse CD69; Mr 85 kDa (unreduced)
<b>Alternate Name(s)</b>	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 <sup>1,2</sup>  
 IHC-FS – Reported in literature <sup>3</sup>  
 IP – Reported in literature <sup>1</sup>  
 Costim – Reported in literature <sup>1</sup>  
 Activ – Reported in literature <sup>2</sup>

### Working Dilutions

<b>Flow Cytometry</b>	FITC, BIOT, and AF488 conjugates	≤ 1 μg/10 <sup>6</sup> cells
	PE, APC, SPRD, PE/CY7, AF647, and PACBLU conjugates	≤ 0.2 μg/10 <sup>6</sup> cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL	
<b>Other Applications</b>	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

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- 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/NaN<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. 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/NaN<sub>3</sub> 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/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red<sup>®</sup> (SPRD) and R-phycoerythrin-Cyanine 7 (PE/CY7) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub> 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 of purified immunoglobulin in 1.0 mL of PBS. **Aliquot and store at or below -20°C.**
- The Alexa Fluor<sup>®</sup> 488 (AF488), Alexa Fluor<sup>®</sup> 647 (AF647), and Pacific Blue™ (PACBLU) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/NaN<sub>3</sub>. 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

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

## References

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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 cryptopatch aggregates share TCR  $\gamma$  variable region junctional sequences with  $\gamma\delta$  T cells in the small intestinal epithelium of mice. *J Immunol.* 2006;176:6532-42. (IHC-FS)

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Spectral Red<sup>®</sup> is a PE/CY5 tandem conjugate.

Cy<sup>®</sup> is a registered trademark of GE Healthcare.

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