# PerCP anti-mouse CD69 Antibody

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| **Catalog# / Size** | 104520 / 100 µg |
| **Clone** | H1.2F3 |
| **Regulatory Status** | RUO |
| **Other Names** | Very Early Activation Antigen (VEA), AIM, EA1, MLR3, gp34/28 |
| **Isotype** | Armenian Hamster IgG |
| **Description** | CD69 is a 60 kD type II membrane protein composed of a 27/33 kD disulfide-linked homodimer, also known as Very Early Activation Antigen (VEA), AIM, EA1, MLR3, and gp34/28. It is expressed on a subset of thymocytes and platelets. CD69 is rapidly induced on activated T and B cells, neutrophils, and NK cells. It is a C-type lectin, closely related to the NKR-P1 and Ly-49 NK cell activation molecules. CD69 is involved in the early events of cell activation and thymocyte positive selection. |

## Product Details

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| **Verified Reactivity** | Mouse |
| **Antibody Type** | Monoclonal |
| **Host Species** | Armenian Hamster |
| **Immunogen** | Mouse dendritic epidermal T cell line Y245 |
| **Formulation** | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. |
| **Preparation** | The antibody was purified by affinity chromatography, and conjugated with PerCP under optimal conditions. |
| **Concentration** | 0.2 mg/ml |
| **Storage & Handling** | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze.** |
| **Application** | FC - Quality tested |
| **Recommended Usage** | Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per $10^6$ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.<br><br>* PerCP has a maximum absorption of 482 nm and a maximum emission of 675 nm. |
| **Application Notes** | The H1.2F3 antibody has been reported to augment T cell activation. Additional reported applications (for the relevant formats) include: *in vitro* T cell and NK cell activation[1-3], immunohistochemistry[4,5], and immunoprecipitation[1].<br><br>This antibody has been characterized in the literature as containing a lambda (?) light chain. |

**Application References**


1. Yokoyama WM, *et al.* 1988. *J. Immunol.* 141:369. (IP)
2. Sobel ES, *et al.* 1993. *J. Immunol.* 150:673.
3. Karlhofer FM, *et al.* 1991. *J. Immunol.* 146:3662.
4. Zhou X, *et al.* 2005. *J. Biol. Chem.* 280:31240. (IHC)
5. Podd BS, *et al.* 2006. *J. Immunol.* 176:6532. (IHC)
6. Lawson BR, *et al.* 2007. *J. Immunol.* 178:5366.
7. Lee JW, *et al.* 2006. *Nature Immunol.* 8:181.
8. Epardaud M, *et al.* 2008. *Cancer Res.* 15:2972. PubMed
9. Jordan JM, *et al.* 2008. 76:3717. PubMed
10. Kenna TJ, *et al.* 2008. *Blood* 111:2091. PubMed
11. Ishikawa C, *et al.* 2013. *Biochim Biophys Acta.* 167:99. PubMed


**Product Citations**

1. Sepe JJ, *et al.* 2022. JACC Basic Transl Sci. 7:915. PubMed
2. Khiew SH, *et al.* 2020. J Clin Invest. 130:3453. PubMed
3. Chang Y, *et al.* 2012. Cancer Prev Res. 0.516666667. PubMed
4. Medler TR *et al.* 2018. Cancer cell. 34(4):561-578 . PubMed
5. Cuenca M, *et al.* 2016. J Immunol. 196: 726 - 737. PubMed
6. Haque R, *et al.* 2012. J Immunol. 189:1228. PubMed

**RRID** AB_940495 (BioLegend Cat. No. 104520)

## Antigen Details

**Structure** C-type lectin, 27/33 kD

**Distribution** Activated T cells and B cells, NK cells, granulocytes, thymocytes, platelets

**Function** Lymphocyte activation

**Cell Type** B cells, Granulocytes, NK cells, Platelets, T cells, Thymocytes, Tregs

**Biology Area** Costimulatory Molecules, Immunology, Innate Immunity

**Molecular Family** CD Molecules

**Antigen References**

1. Barclay AN, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Testi R, *et al.* 1994. *Immunol. Today* 15:479.
3. Moretta A, *et al.* 1991. *J. Exp. Med.* 174:1393.
4. Yokoyama WM, *et al.* 1988. *J. Immunol.* 141:369.

**Gene ID** 12515

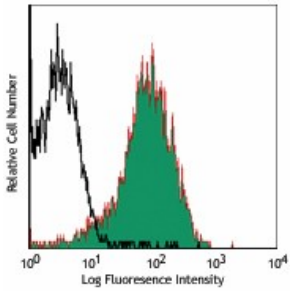
## Related Protocols

Cell Surface Flow Cytometry Staining Protocol

## Other Formats

Biotin anti-mouse CD69, FITC anti-mouse CD69, PE anti-mouse CD69, PE/Cyanine5 anti-mouse CD69, Purified anti-mouse CD69, PE/Cyanine7 anti-mouse CD69, APC anti-mouse CD69, Alexa Fluor® 488 anti-mouse CD69, Alexa Fluor® 647 anti-mouse CD69, PerCP anti-mouse CD69, PerCP/Cyanine5.5 anti-mouse CD69, Pacific Blue™ anti-mouse CD69, Brilliant Violet 421™ anti-mouse CD69, APC/Cyanine7 anti-mouse CD69, Brilliant Violet 605™ anti-mouse CD69, Brilliant Violet 510™ anti-mouse CD69, Purified anti-mouse CD69 (Maxpar® Ready), PE/Dazzle™ 594 anti-mouse CD69, Brilliant Violet 711™ anti-mouse CD69, Alexa Fluor® 700 anti-mouse CD69, Brilliant Violet 650™ anti-mouse CD69, Brilliant Violet 785™ anti-mouse CD69, TotalSeq™-A0197 anti-mouse CD69, APC/Fire™ 750 anti-mouse CD69, TotalSeq™-C0197 anti-mouse CD69, TotalSeq™-B0197 anti-mouse CD69, KIRAVIA Blue 520™ anti-mouse CD69, Spark NIR™ 685 anti-mouse CD69, Spark Red™ 718 anti-mouse CD69

## Product Data




PMA + ionomycin-stimulated (6 hrs) C57BL/6 splenocytes stained with H1.2F3 PerCP

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