

Purified anti-mouse CD69 (Maxpar® Ready) Antibody

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|--------------------------|--|
| Catalog# / Size | 104533 / 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 and EDTA. |
| Preparation | The antibody was purified by affinity chromatography. |
| Concentration | 1.0 mg/ml |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C. |
| Application | FC - Quality tested CyTOF® - Verified |
| Recommended Usage | This product is suitable for use with the Maxpar® Metal Labeling Kits . For metal labeling using Maxpar® Ready antibodies, proceed directly to the step to Partially Reduce the Antibody by adding 100 µl of Maxpar® Ready antibody to 100 µl of 4 mM TCEP-R in a 50 kDa filter and continue with the protocol. Always refer to the latest version of Maxpar® User Guide when conjugating Maxpar® Ready antibodies. |
| Application Notes | The H1.2F3 antibody has been reported to augment T cell activation. Additional reported applications (for the relevant formats) include: <i>in vitro</i> T cell and NK cell activation ¹⁻³ , immunohistochemistry ^{4,5} , and immunoprecipitation ¹ . This antibody has been characterized in the literature as containing a lambda (?) light chain. |
| Additional Product Notes | Maxpar® is a registered trademark of Standard BioTools Inc. |
| Application References | <ol style="list-style-type: none">1. Yokoyama WM, <i>et al.</i> 1988. <i>J. Immunol.</i> 141:369. (IP)2. Sobel ES, <i>et al.</i> 1993. <i>J. Immunol.</i> 150:673.3. Karlhofer FM, <i>et al.</i> 1991. <i>J. Immunol.</i> 146:3662.4. Zhou X, <i>et al.</i> 2005. <i>J. Biol. Chem.</i> 280:31240. (IHC)5. Podd BS, <i>et al.</i> 2006. <i>J. Immunol.</i> 176:6532. (IHC)6. Lawson BR, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:5366.7. Lee JW, <i>et al.</i> 2006. <i>Nature Immunol.</i> 8:181.8. Epardaud M, <i>et al.</i> 2008. <i>Cancer Res.</i> 15:2972. PubMed9. Jordan JM, <i>et al.</i> 2008. 76:3717. PubMed10. Kenna TJ, <i>et al.</i> 2008. <i>Blood</i> 111:2091. PubMed11. Ishikawa C, <i>et al.</i> 2013. <i>Biochim Biophys Acta.</i> 167:99. PubMed |
| (PubMed link indicates BioLegend citation) | |

Product Citations

1. Wei SC *et al.* 2017. *Cell*. 170(6):1120-1133 . [PubMed](#)
2. Wei SC, *et al.* 2019. *Immunity*. 50:1084. [PubMed](#)
3. Joseph R, *et al.* 2021. *Br J Cancer*. 125:176. [PubMed](#)
4. Rustenhoven J, *et al.* 2021. *Cell*. 184(4):1000-1016.e27. [PubMed](#)

RRID AB_2563760 (BioLegend Cat. No. 104533)

Antigen Details

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|---------------------------|--|
| 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 | <ol style="list-style-type: none"> 1. Barclay AN, <i>et al.</i> 1997. <i>The Leukocyte Antigen FactsBook</i> Academic Press. 2. Testi R, <i>et al.</i> 1994. <i>Immunol. Today</i> 15:479. 3. Moretta A, <i>et al.</i> 1991. <i>J. Exp. Med.</i> 174:1393. 4. Yokoyama WM, <i>et al.</i> 1988. <i>J. Immunol.</i> 141:369. |
| Gene ID | 12515 |

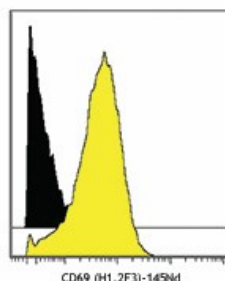
Related Protocols

[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



C57BL/6 mouse splenocytes were incubated for 18 hours in media alone (black) or with PMA and Ionomycin (yellow). Cells were then fixed, permeabilized, and stained with 145Nd-anti-CD69 (H1.2F3). Data provided by DVS Sciences.

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