

## Purified anti-mouse CD69 (Maxpar<sup>®</sup> Ready) Antibody

<b>Catalog# / Size</b>	104533 / 100 µg
<b>Clone</b>	H1.2F3
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Very Early Activation Antigen (VEA), AIM, EA1, MLR3, gp34/28
<b>Isotype</b>	Armenian Hamster IgG
<b>Description</b>	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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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Armenian Hamster
<b>Immunogen</b>	Mouse dendritic epidermal T cell line Y245
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and EDTA.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	1.0 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">FC - Quality tested</a> <a href="#">CyTOF<sup>®</sup> - Verified</a>
<b>Recommended Usage</b>	This product is suitable for use with the <a href="#">Maxpar<sup>®</sup> Metal Labeling Kits</a> . For metal labeling using Maxpar <sup>®</sup> Ready antibodies, proceed directly to the step to Partially Reduce the Antibody by adding 100 µl of Maxpar <sup>®</sup> 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 <sup>®</sup> User Guide when conjugating Maxpar <sup>®</sup> Ready antibodies.
<b>Application Notes</b>	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 <sup>1-3</sup> , immunohistochemistry <sup>4,5</sup> , and immunoprecipitation <sup>1</sup> .  This antibody has been characterized in the literature as containing a lambda (?) light chain.
<b>Additional Product Notes</b>	Maxpar <sup>®</sup> is a registered trademark of Standard BioTools Inc.
<b>Application References</b>	<ol style="list-style-type: none"> <li>1. Yokoyama WM, <i>et al.</i> 1988. <i>J. Immunol.</i> 141:369. (IP)</li> <li>2. Sobel ES, <i>et al.</i> 1993. <i>J. Immunol.</i> 150:673.</li> <li>3. Karlhofer FM, <i>et al.</i> 1991. <i>J. Immunol.</i> 146:3662.</li> <li>4. Zhou X, <i>et al.</i> 2005. <i>J. Biol. Chem.</i> 280:31240. (IHC)</li> <li>5. Podd BS, <i>et al.</i> 2006. <i>J. Immunol.</i> 176:6532. (IHC)</li> <li>6. Lawson BR, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:5366.</li> <li>7. Lee JW, <i>et al.</i> 2006. <i>Nature Immunol.</i> 8:181.</li> <li>8. Epardaud M, <i>et al.</i> 2008. <i>Cancer Res.</i> 15:2972. <a href="#">PubMed</a></li> <li>9. Jordan JM, <i>et al.</i> 2008. 76:3717. <a href="#">PubMed</a></li> <li>10. Kenna TJ, <i>et al.</i> 2008. <i>Blood</i> 111:2091. <a href="#">PubMed</a></li> <li>11. Ishikawa C, <i>et al.</i> 2013. <i>Biochim Biophys Acta.</i> 167:99. <a href="#">PubMed</a></li> </ol>
<b>(PubMed link indicates BioLegend citation)</b>	

### 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

<b>Structure</b>	C-type lectin, 27/33 kD
<b>Distribution</b>	Activated T cells and B cells, NK cells, granulocytes, thymocytes, platelets
<b>Function</b>	Lymphocyte activation
<b>Cell Type</b>	B cells, Granulocytes, NK cells, Platelets, T cells, Thymocytes, Tregs
<b>Biology Area</b>	Costimulatory Molecules, Immunology, Innate Immunity
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Barclay AN, <i>et al.</i> 1997. <i>The Leukocyte Antigen FactsBook</i> Academic Press.</li> <li>2. Testi R, <i>et al.</i> 1994. <i>Immunol. Today</i> 15:479.</li> <li>3. Moretta A, <i>et al.</i> 1991. <i>J. Exp. Med.</i> 174:1393.</li> <li>4. Yokoyama WM, <i>et al.</i> 1988. <i>J. Immunol.</i> 141:369.</li> </ol>
<b>Gene ID</b>	<a href="#">12515</a>

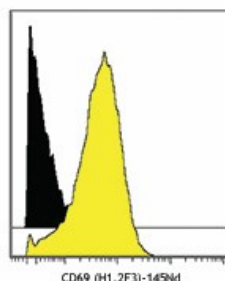
## Related Protocols

[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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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587