

## Alexa Fluor<sup>®</sup> 700 anti-mouse CD69 Antibody

<b>Catalog# / Size</b>	104539 / 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.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor <sup>®</sup> 700 under optimal conditions.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a>. For flow cytometric staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor<sup>®</sup> 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor<sup>®</sup> 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.</p> <p>Alexa Fluor<sup>®</sup> and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p><a href="#">View full statement regarding label licenses</a></p>
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application Notes</b>	<p>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>.</p> <p>This antibody has been characterized in the literature as containing a lambda (?) light chain.</p>
<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></ol>

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. Jennings EK, *et al.* 2021. *STAR Protocols.* 2(1):100284. [PubMed](#)
2. Hong JY, *et al.* 2020. *Cell.* 180(5):847-861. [PubMed](#)
3. Andersohn A, *et al.* 2019. *Front Cell Dev Biol.* 0.429166667. [PubMed](#)
4. Liu X, *et al.* 2021. *Int J Nanomedicine.* 16:5675. [PubMed](#)
5. Li C, *et al.* 2018. *Cell.* 174:285. [PubMed](#)
6. Yoshida H, *et al.* 2019. *Cell.* 176:897. [PubMed](#)

#### RRID

AB\_2566304 (BioLegend Cat. No. 104539)

## 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>

#### Gene ID

[12515](#)

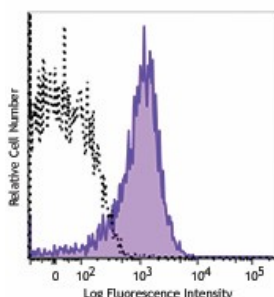
## Related Protocols

[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 and ionomycin-stimulated C57BL/6 mouse splenocytes (six hours) were stained with CD69 (clone H1.2F3) Alexa Fluor® 700 (filled histogram) or Armenian Hamster IgG Alexa Fluor® 700 isotype control (open histogram).

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