

Pacific Blue™ anti-mouse CD69 Antibody

Catalog# / Size	104523 / 25 µg 104524 / 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

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 Pacific Blue™ under optimal conditions.
Concentration	0.5 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	<p>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 ≤ 1.0 µg per 10⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Violet Laser (405 nm)
Application Notes	<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 activation¹⁻³, immunohistochemistry^{4,5}, and immunoprecipitation¹.</p> <p>This antibody has been characterized in the literature as containing a lambda (?) light chain.</p>
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)
(PubMed link indicates BioLegend citation)	

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Product Citations

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RRID

AB_2260064 (BioLegend Cat. No. 104523)
 AB_2074979 (BioLegend Cat. No. 104524)

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	<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

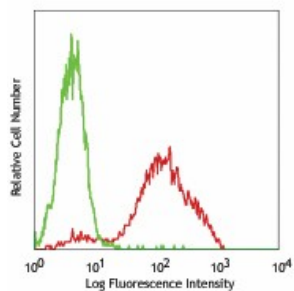
Related Protocols

[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



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

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