

# CD69 Monoclonal Antibody (H1.2F3), FITC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	H1.2F3
Conjugate	FITC
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465119

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	104 Publications
ELISA (ELISA)	-	1 Publication
In vitro Assay (IV)	-	1 Publication

## Product Specific Information

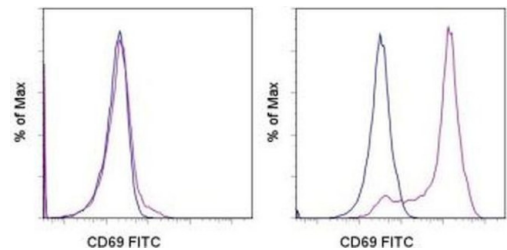
**Description:** The H1.2F3 monoclonal antibody reacts with mouse CD69, also known as very early activation antigen (VEA). CD69 is approximately 35 kDa and is expressed on the surface as a disulfide-linked dimer. While a small subset of lymphocytes in the thymus, spleen and lymph nodes express this antigen, activation of both T and B cells rapidly upregulates the surface expression of CD69, suggesting a role for CD69 in lymphocyte development and activation.

**Applications Reported:** The H1.2F3 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The H1.2F3 antibody has been tested by flow cytometric analysis of resting and activated mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Excitation:** 488 nm; **Emission:** 520 nm; **Laser:** Blue Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.



**CD69 Antibody (11-0691-82) in Flow**  
Staining of unstimulated (left) or overnight ConA-stimulated (right) C57BL/6 mouse splenocytes with 0.25 µg of Armenian Hamster IgG Isotype Control FITC (Product # 11-4888-81) (blue histogram) or 0.25 µg of Anti-Mouse CD69 FITC (purple histogram). Total viable cells were analyzed.

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Flow Cytometry (104)

<p>NPJ vaccines</p> <p><b>Enhanced germinal center reaction by targeting vaccine antigen to major histocompatibility complex class II molecules.</b></p> <p>"Published figure using CD69 monoclonal antibody (Product # 11-0691-82) in Flow Cytometry"</p> <p>Authors: Andersen TK,Huszthy PC,Gopalakrishnan RP,Jacobsen JT,Fauskanger M,Tveita AA,Grødeland G,Bogen B</p>	<p>Year</p> <p>2023</p>
<p>JCI insight</p> <p><b>Maternal acellular pertussis vaccination in mice impairs cellular immunity to Bordetella pertussis infection in offspring.</b></p> <p>"11-0691-82 was used in Flow cytometry/Cell sorting to demonstrate that maternal aP immunization, either before or during pregnancy, protects pups from lung colonization by Bordetella pertussis."</p> <p>Authors: Dubois V,Chatagnon J,Depessemier M,Locht C</p>	<p>Year</p> <p>2023</p> <p>Species</p> <p>Mouse</p>

[View more Flow references on thermofisher.com](#)

ELISA (1)

<p>Protein &amp; cell</p> <p><b>Contact-dependent delivery of IL-2 by dendritic cells to CD4 T cells in the contraction phase promotes their long-term survival.</b></p> <p>"Published figure using CD69 monoclonal antibody (Product # 11-0691-82) in ELISA"</p> <p>Authors: Tong D,Zhang L,Ning F,Xu Y,Hu X,Shi Y</p>	<p>Year</p> <p>2020</p>
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In vitro Assay (1)

<p>Immunology</p> <p><b>Macrophages transfer antigens to dendritic cells by releasing exosomes containing dead-cell-associated antigens partially through a ceramide-dependent pathway to enhance CD4(+) T-cell responses.</b></p> <p>"11-0691 was used in In vitro assays to identify a novel pathway of cross-talk between macrophages and dendritic cells."</p> <p>Authors: Xu Y,Liu Y,Yang C,Kang L,Wang M,Hu J,He H,Song W,Tang H</p>	<p>Year</p> <p>2016</p> <p>Species</p> <p>Mouse</p>
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More applications with references on thermofisher.com

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