

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	H1.2F3
Conjugate	Biotin
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_466495

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	59 Publications
ELISA (ELISA)	-	1 Publication
Functional Assay (FN)	-	1 Publication

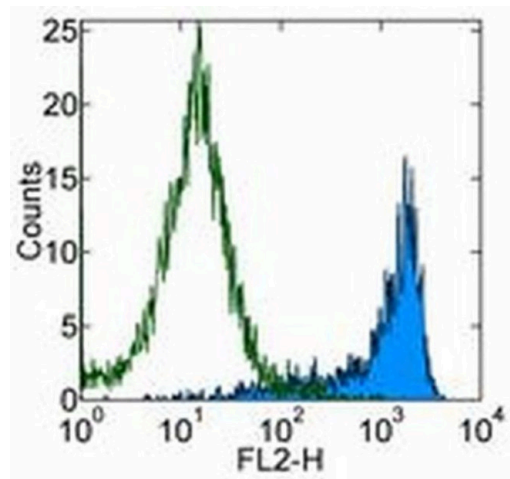
## Product Specific Information

**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.

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



**CD69 Antibody (13-0691-82) in Flow**

Staining of ConA-stimulated BALB/c splenocytes with 0.25 µg of Armenian Hamster IgG Isotype Control Biotin (Product # 13-4888-81) (open histogram) or 0.25 µg of Anti-Mouse CD69 Biotin (filled histogram) followed by Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

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Immunocytochemistry (1)

<p>Cell host &amp; microbe</p> <p><b>RP105 facilitates macrophage activation by Mycobacterium tuberculosis lipoproteins.</b></p> <p>"13-0691 was used in Flow cytometry/Cell sorting to identify RP105 as an accessory molecule for TLR2, with a role in innate immune recognition of mycobacterial lipoproteins."</p> <p>Authors: Blumenthal A,Kobayashi T,Pierini LM,Banaei N,Ernst JD,Miyake K,Ehrt S</p>	<p>Year 2009</p> <p>Species Mouse</p>
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Flow Cytometry (59)

<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 # 13-0691-82) 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 2023</p>
<p>Theranostics</p> <p><b>HSF1 promotes CD69<sup>+</sup> Treg differentiation to inhibit colitis progression.</b></p> <p>"Published figure using CD69 monoclonal antibody (Product # 13-0691-82) in Flow Cytometry"</p> <p>Authors: Yu L,Zhou B,Zhu Y,Li L,Zhong Y,Zhu L,Wang H,Chen H,Xu J,Guo T,Feng L,Wang X,Cai Z,Wang J,Jin H</p>	<p>Year 2023</p>

View more Flow references on thermofisher.cn

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 # 13-0691-82) in ELISA"</p> <p>Authors: Tong D,Zhang L,Ning F,Xu Y,Hu X,Shi Y</p>	<p>Year 2020</p>
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More applications with references on thermofisher.cn

FN (1)

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