

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	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, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466495

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	26 Publications
Functional Assay (FN)	1:200	1 Publication
Immunofluorescence (IF)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

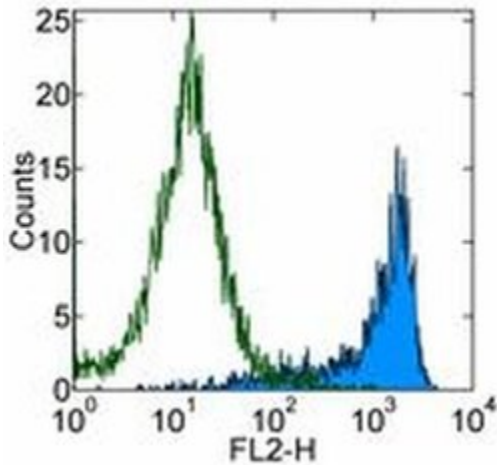
Description: The H1.2F3 monoclonal antibody reacts with mouse CD69, also known as very early activation antigen (VEA). CD69 is approximately 35 kDa and is expressed on the surface as a disulfide-linked dimer. While a small subset of lymphocytes in the thymus, spleen and lymph nodes express this antigen, 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 10⁵ to 10⁸ 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.

Product Images For CD69 Monoclonal Antibody (H1.2F3), Biotin, eBioscience™



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.

[View more figures on thermofisher.com](#)

29 References

Flow Cytometry (26)

Scientific reports

Development of a screening strategy for new modulators of T cell receptor signaling and T cell activation.

"Published figure using CD69 monoclonal antibody (Product # 13-0691-82) in Flow Cytometry"

Authors: Chen EW, Brzostek J, Gascoigne NRJ, Rybakin V

Species

Not Applicable

Dilution

Not Cited

Year

2018

Scientific reports

Homoharringtonine induced immune alteration for an Efficient Anti-tumor Response in Mouse Models of Non-small Cell Lung Adenocarcinoma Expressing Kras Mutation.

"Published figure using CD69 monoclonal antibody (Product # 13-0691-82) in Flow Cytometry"

Authors: Weng TY, Wu HF, Li CY, Hung YH, Chang YW, Chen YL, Hsu HP, Chen YH, Wang CY, Chang JY, Lai MD

Species

Not Applicable

Dilution

Not Cited

Year

2018

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

Miscellaneous PubMed (1)

eLife

Affinity and dose of TCR engagement yield proportional enhancer and gene activity in CD4+ T cells.

"13-0691 was used in Magnetic cell separation to investigate relationship between the strength of antigenic stimulation and the response of mouse CD4+ T cells."

Authors: Allison KA, Sajti E, Collier JG, Gosselin D, Troutman TD, Stone EL, Hedrick SM, Glass CK

Species

Mouse

Dilution

Not Cited

Year

2016

Functional Assay (1)

CD69 regulates type I IFN-induced tolerogenic signals to mucosal CD4 T cells that attenuate their colitogenic potential.

"13-0691 was used in Functional assays to demonstrate that CD69 knockout can modulate mucosal CD4 T cells and increase colitis levels in a mouse transfer model of the disease."

Authors: Radulovic K, Manta C, Rossini V, Holzmann K, Kestler HA, Wegenka UM, Nakayama T, Niess JH

Species
Mouse

Dilution
1:200

Year
2012

More applications with references on thermofisher.com

IF (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.