

# CD69 Monoclonal Antibody (H1.2F3), PE-Cyanine7, 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), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	H1.2F3
Conjugate	PE-Cyanine7
Form	Liquid
Concentration	0.2 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_469637

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	53 Publications

## 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:** This 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.

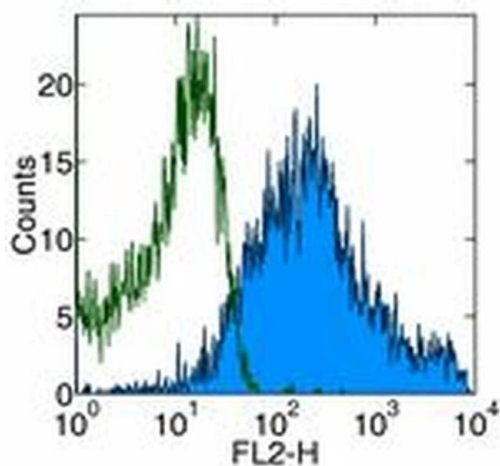
**Light sensitivity:** This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD69 Monoclonal Antibody (H1.2F3), PE-Cyanine7, eBioscience™



### CD69 Antibody (25-0691-82) in Flow

Staining of ConA-stimulated splenocytes with Anti-Mouse CD69 PE. Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

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## 53 References

### Flow Cytometry (53)

eLife

#### T cell self-reactivity during thymic development dictates the timing of positive selection.

"25-0691-82 was used in Flow Cytometry to imply that thymocytes with low self-reactivity downregulate TCR sensitivity more slowly during positive selection, and associate membrane ion channel expression with thymocyte self-reactivity and progress through positive selection."

Authors: Lutes LK,Steier Z,McIntyre LL,Pandey S,Kaminski J,Hoover AR,Ariotti S,Streets A,Yosef N,Robey EA

**Species**  
Mouse

**Dilution**  
1:200

**Year**  
2021

Journal of hematology & oncology

#### Cell-permeable transgelin-2 as a potent therapeutic for dendritic cell-based cancer immunotherapy.

"Published figure using CD69 monoclonal antibody (Product # 25-0691-82) in Flow Cytometry"

Authors: Kim HR,Park JS,Park JH,Yasmin F,Kim CH,Oh SK,Chung IJ,Jun CD

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

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

## More applications with references on thermofisher.com

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