

CD69 Monoclonal Antibody (H1.2F3), Super Bright™ 645, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Super Bright™ 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	H1.2F3
Conjugate	Super Bright™ 645
Excitation/Emission Max	414/645 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2688121

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	27 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: This 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 stimulated mouse splenocytes. This may 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.

Super Bright 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

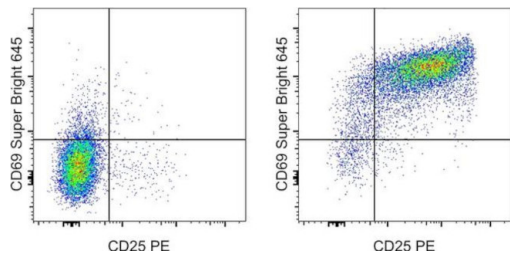
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 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: 405 nm; Emission: 645 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD69 Monoclonal Antibody (H1.2F3), Super Bright™ 645, eBioscience™



CD69 Antibody (64-0691-82) in Flow
Swiss Webster mouse splenocytes were unstimulated (left) or stimulated overnight with Con A (Product # 00-4978-03) (right). Cells were then stained with CD25 Monoclonal Antibody, PE (Product # 12-0251-82) and 0.25 µg of CD69 Monoclonal Antibody, Super Bright 645. Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

27 References

Flow Cytometry (27)

Theranostics	
HSF1 promotes CD69⁺ Treg differentiation to inhibit colitis progression. "Published figure using CD69 monoclonal antibody (Product # 64-0691-82) in Flow Cytometry" 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	Year 2023
PloS one	
Novel Bruton's tyrosine kinase inhibitor TAS5315 suppresses the progression of inflammation and joint destruction in rodent collagen-induced arthritis. "Published figure using CD69 monoclonal antibody (Product # 64-0691-82) in Flow Cytometry" Authors: Akasaka D,Iguchi S,Kaneko R,Yoshiga Y,Kajiwara D,Nakachi Y,Noma N,Tanaka K,Shimizu A,Hosoi F	Year 2023

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