

CD69 Monoclonal Antibody (FN50), Super Bright™ 780, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	FN50
Conjugate	Super Bright™ 780
Excitation/Emission Max	413/780 nm
Form	Liquid
Concentration	5 µL/Test
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_2724100

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	11 Publications

Product Specific Information

Description: The FN50 monoclonal antibody reacts with human CD69, also known as very early activation antigen (VEA). CD69 is approximately 30 kDa and is expressed on the cell-surface as a disulfide-linked dimer. CD69 is rapidly upregulated upon activation and expressed on lymphocytes, monocytes and platelets.

Applications Reported: This FN50 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This FN50 antibody has been pre-titrated and tested by flow cytometric analysis of stimulated normal human peripheral blood cells. This can be used at 5 µL (0.125 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.

Super Bright 780 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 780 nm. We recommend using a 780/60 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.

In some experiments, we have observed that compensation values for Super Bright 780-conjugated antibodies are higher in

the violet 450/50 channel when using UltraComp eBeads microspheres (Product # 01-2222-42) as compared to single-color stained cells. In such circumstances, we would recommend setting compensation with cells. We have also observed this in some experiments using AbC Total Antibody Compensation beads (Product # A10497).

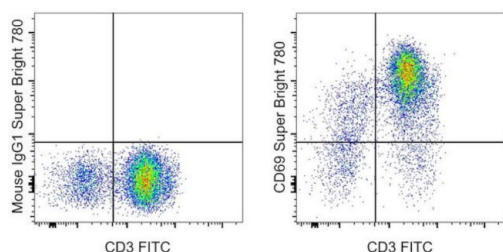
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L 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:** 780 nm; **Laser:** Violet Laser

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

Product Images For CD69 Monoclonal Antibody (FN50), Super Bright™ 780, eBioscience™



CD69 Antibody (78-0699-42) in Flow

Staining of overnight PHA-stimulated normal human peripheral blood cells with CD3 Monoclonal Antibody, FITC (Product # 11-0038-42) and Mouse IgG1 kappa Isotype Control, Super Bright 780 (Product # 78-4714-81) (left) or CD69 Monoclonal Antibody, Super Bright 780 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

Immunohistochemistry (Frozen) (1)

JCI insight

Distinct populations of antigen-specific tissue-resident CD8+ T cells in human cervix mucosa.

"Published figure using CD69 monoclonal antibody (Product # 78-0699-42) in Immunocytochemistry"

Authors: Peng T, Phasouk K, Bossard E, Klock A, Jin L, Laing KJ, Johnston C, Williams NA, Czartoski JL, Varon D, Long AN, Bielas JH, Snyder TM, Robins H, Koelle DM, McElrath MJ, Wald A, Corey L, Zhu J

Year
2021

Flow Cytometry (11)

Nature communications

SARS CoV-2 mRNA vaccination exposes latent HIV to Nef-specific CD8+ T-cells.

"Published figure using CD69 monoclonal antibody (Product # 78-0699-42) in Flow Cytometry"

Authors: Stevenson EM, Terry S, Copertino D, Leyre L, Danesh A, Weiler J, Ward AR, Khadka P, McNeil E, Bernard K, Miller IG, Ellsworth GB, Johnston CD, Finkelsztejn EJ, Zumbo P, Betel D, Dündar F, Duncan MC, Lapointe HR, Speckmaier S, Moran-Garcia N, Papa MP, Nicholes S, Stover CJ, Lynch RM, Caskey M, Gaebler C, Chun TW, Bosque A, Wilkin TJ, Lee GQ, Brumme ZL, Jones RB

Year
2022

Frontiers in cell and developmental biology

Dysregulated Peripheral Invariant Natural Killer T Cells in Plaque Psoriasis Patients.

"Published figure using CD69 monoclonal antibody (Product # 78-0699-42) in Flow Cytometry"

Authors: Hu Y, Chen Y, Chen Z, Zhang X, Guo C, Yu Z, Xu P, Sun L, Zhou X, Gong Y, Yu Q, Shi Y

Year
2022

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More applications with references on thermofisher.com

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