

CD69 Monoclonal Antibody (FN50), Super Bright™ 600, 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™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	FN50
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 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_2717045

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	15 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-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.06 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 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 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

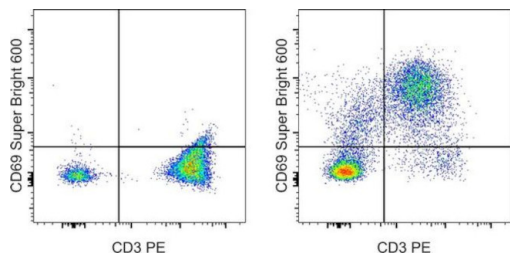
light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 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: 600 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™ 600, eBioscience™



CD69 Antibody (63-0699-42) in Flow

Normal human peripheral blood cells were unstimulated (left) or stimulated for 1 day with PHA-L (Product # 00-4977-93) (right). Cells were then stained with CD3 Monoclonal Antibody, PE (Product # 12-0038-42) and CD69 Monoclonal Antibody, Super Bright 600. Cells in the lymphocyte gate were used for analysis.

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

16 References

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 # 63-0699-42) 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 (15)

PloS one

Selection, engineering, and in vivo testing of a human leukocyte antigen-independent T-cell receptor recognizing human mesothelin.

"Published figure using CD69 monoclonal antibody (Product # 63-0699-42) in Flow Cytometry"

Authors: Hiscox MJ, Wasmuth A, Williams CL, Foot JN, Wiedermann GE, Fadda V, Boiani S, Cornforth TV, Wikiert KA, Bruton S, Cartwright N, Anderson VE, Barnes CS, Vieira JV, Birch-Machin I, Gerry AB, Miller K, Pumphrey NJ

Year
2024

Clinical cancer research : an official journal of the American Association for Cancer Research

Comprehensive Single-Cell Immune Profiling Defines the Patient Multiple Myeloma Microenvironment Following Oncolytic Virus Therapy in a Phase Ib Trial.

"Published figure using CD69 monoclonal antibody (Product # 63-0699-42) in Flow Cytometry"

Authors: Nawrocki ST, Olea J, Villa Celi C, Dadrastoussi H, Wu K, Tsao-Wei D, Colombo A, Coffey M, Fernandez Hernandez E, Chen X, Nuovo GJ, Carew JS, Mohrbacher AF, Fields P, Kuhn P, Siddiqi I, Merchant A, Kelly KR

Year
2023

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More applications with references on thermofisher.com

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