CD69 Monoclonal Antibody (FN50), Super Bright™ 436, 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™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	FN50
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 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_2688204

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 10^5 to 10^8 cells/test.

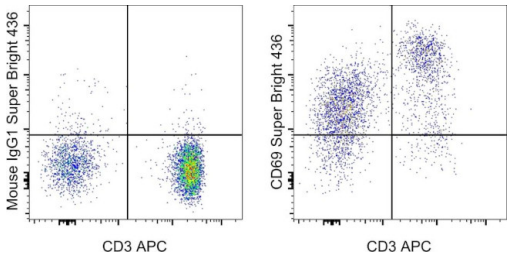
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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.

Excitation: 405 nm; Emission: 436 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™ 436, eBioscience™



CD69 Antibody (62-0699-42) in Flow
Normal human peripheral blood cells were unstimulated (left) or stimulated overnight with PHA-L (Product # 00-4977-03) (right). Cells were then stained with CD3 Monoclonal Antibody, APC (Product # 17-0036-42) and CD69 Monoclonal Antibody, Super Bright 436. Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

12 References

Immunohistochemistry (Frozen) (1)

JCI insight

Year
2021

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

"Published figure using CD69 monoclonal antibody (Product # 62-0699-42) 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

Flow Cytometry (11)

Nature communications

Year
2022

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

"Published figure using CD69 monoclonal antibody (Product # 62-0699-42) 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,Finkelsztein 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

Frontiers in cell and developmental biology

Year
2022

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

"Published figure using CD69 monoclonal antibody (Product # 62-0699-42) 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

View more Flow references on thermofisher.com

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