CD69 Monoclonal Antibody (FN50), PE, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human, Mouse, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	FN50
Conjugate	PE
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10733526

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.015 µg)/test	22 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.

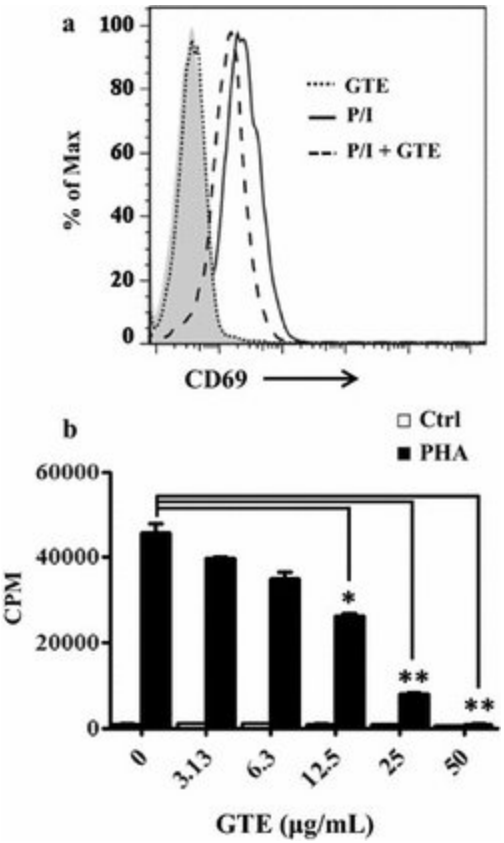
Applications Reported: The FN50 antibody has been reported for use in flow cytometric analysis.

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 (0.015 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

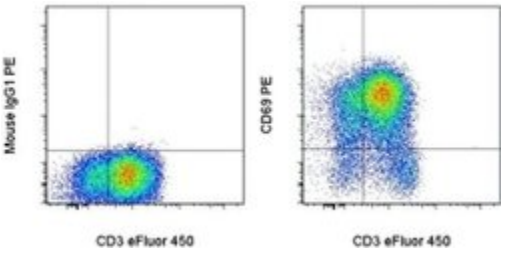
Filtration: 0.2 µm post-manufacturing filtered.

Advanced Verification Data



CD69 Antibody (12-0699-42)
Fig. 1 GTE blocks T cell activation. a CD69 induction decreased in GTE-treated Jurkat T cells. Jurkat T cells were activated by PMA/ionomycin alone (P/I; solid line) or with 25 mug/mL GTE (long dashed line). GTE treatment alone (short dashed line) was used as a control. The cells were stained with an anti-CD69-PE antibody. The CD69-positive cells were then analyzed by flow cytometry. Data were assessed with FlowJo software. b Decreased proliferation of GTE-treated PBMCs. Freshly purified PBMCs were pretreated with various doses of GTE for 30 min and then stimulated by 2.5 mug/mL PHA. Cell proliferation was examined by 3 H-thymidine incorporation after a 20 h pulse with 0.5 muCi/well 3 H-thymidine. Data are expressed as counts per minute (CPM) of 3 H-thymidine uptake. A significant difference from the vehicle is indicated as * P < 0.05 or ** P < 0.01 Cell treatment validation info.

Product Images For CD69 Monoclonal Antibody (FN50), PE, eBioscience™



CD69 Antibody (12-0699-42) in Flow
Staining of overnight PHA-stimulated normal human peripheral blood cells with Anti-Human CD3 eFluor® 450 (Product # 48-0037-42) and Mouse IgG1 K Isotype Control PE (Product # 12-4714-81) (left) or Anti-Human CD69 PE (right). Cells in the lymphocyte gate were used for analysis.

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22 References

Flow Cytometry (22)

The Journal of biological chemistry

T cell receptor-dependent S-acylation of ZAP-70 controls activation of T cells.

"Published figure using CD69 monoclonal antibody (Product # 12-0699-42) in Flow Cytometry"

Authors: Tewari R,Shayahati B,Fan Y,Akimzhanov AM

Species
Not Applicable

Dilution
Not Cited

Year
2021

Cancers

Murlentamab, a Low Fucosylated Anti-Müllerian Hormone Type II Receptor (AMHRII) Antibody, Exhibits Anti-Tumor Activity through Tumor-Associated Macrophage Reprogrammation and T Cell Activation.

"12-0699 was used in Flow cytometry/Cell sorting to demonstrate here that the murlentamab opsonization of AMHRII-expressing ovarian tumor cells, in the presence of unstimulated- or tumor-associated macrophage (TAM)-like macrophages, significantly promotes macrophage-mediated ADCC and shifts the whole microenvironment towards a pro-inflammatory and anti-tumoral status, thus triggering anti-tumor activity."

Authors: Prat M,Salon M,Allain T,Dubreuil O,Noël G,Preisser L,Jean B,Cassard L,Lemée F,Tabah-Fish I,Pipy B, Jeannin P,Prost JF,Barret JM,Coste A

Species
Human

Dilution
Not Cited

Year
2021

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