

# 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.

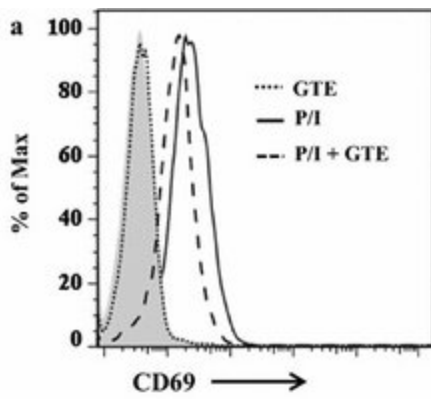
**Applications Reported:** The FN50 antibody has been reported for use in flow cytometric analysis.

**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<sup>5</sup> to 10<sup>8</sup> cells/test.

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

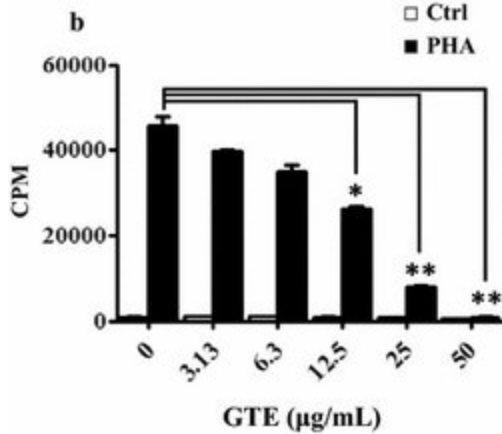
**Filtration:** 0.2 µm post-manufacturing filtered.

## Advanced Verification Data

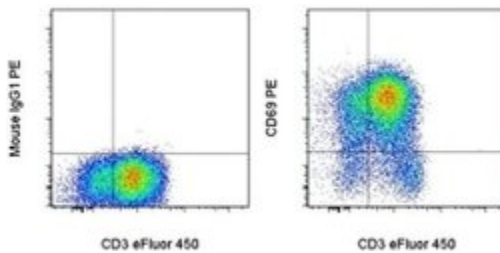


### CD69 Antibody (12-0699-42)

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  $\mu\text{g}/\text{mL}$  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  $\mu\text{g}/\text{mL}$  PHA. Cell proliferation was examined by  $^3\text{H}$ -thymidine incorporation after a 20 h pulse with 0.5  $\mu\text{Ci}/\text{well}$   $^3\text{H}$ -thymidine. Data are expressed as counts per minute (CPM) of  $^3\text{H}$ -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 (Product # 12-4714-81) (right). Cells in the lymphocyte gate were used for analysis.

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## 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 Reprogramming 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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