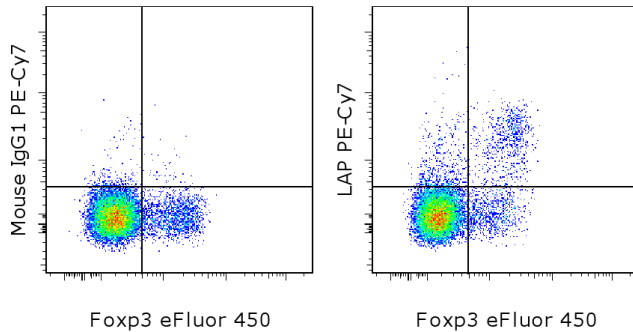


Anti-Human LAP (Latency Associated Peptide) PE-Cyanine7

Catalog Number: 25-9829

Also known as: Pro-TGF beta 1, LAP/TGF beta 1

RUO: For Research Use Only. Not for use in diagnostic procedures.



Normal human peripheral blood cells were stimulated with Anti-Human CD3, Anti-Human CD28 and Human IL-2 recombinant protein for 1 day, and then stained with Anti-Human CD4 FITC (cat. 11-0048), and Mouse IgG1 K Isotype Control PE-Cyanine7 (cat. 25-4714) (left) or Anti-Human LAP (Latency Associated Peptide) PE-Cyanine7 (right) followed by intracellular staining with Anti-Human Foxp3 eFluor[®] 450 (cat. 48-4776) using Foxp3 Fixation/Permeabilization Buffer and protocol. CD4⁺ cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human LAP (Latency Associated Peptide) PE-Cyanine7

REF **Catalog Number:** 25-9829

Clone: FNLAP

Concentration: 5 uL (0.25 ug)/test

Host/Isotype: Mouse IgG1, kappa



Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.

LOT

Batch Code: Refer to vial



Use By: Refer to vial

Contains sodium azide

Description

The FNLAP monoclonal antibody reacts with human latency associated peptide (LAP, pro-TGF beta 1, LAP/TGF beta 1). Many different cells produce TGF beta and it mediates effects on the proliferation, differentiation and function of many cell types. TGF beta is synthesized as a precursor that contains LAP at the N-terminus and mature TGF beta at the C-terminus. Processing and cleavage of the precursor protein between amino acids 278 and 279 results in the formation of LAP dimers and TGF beta dimers that then non-covalently associate with each other to form the small latent TGF beta complex. LAP is secreted and can be found in the extracellular matrix. In addition, LAP can also be expressed on platelets and activated regulatory T cells. It is believed that this surface-expressed LAP is due to the binding of LAP to GARP (LRRC32), which is a transmembrane protein that is also found at high levels on platelets and activated regulatory T cells.

Applications Reported

This FNLAP antibody has been reported for use in flow cytometric analysis.

Applications Tested

This FNLAP antibody has been pre-titrated and tested by flow cytometric analysis of stimulated human peripheral blood cells. This can be used at 5 µL (0.25 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.

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

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 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.

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References

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Related Products

00-5521 Foxp3 Fixation/Permeabilization Concentrate and Diluent

11-0048 Anti-Human CD4 FITC (OKT4 (OKT-4))

14-8029 Human IL-2 Recombinant Protein

16-0037 Anti-Human CD3 Functional Grade Purified (OKT3)

16-0289 Anti-Human CD28 Functional Grade Purified (CD28.2)

25-4714 Mouse IgG1 K Isotype Control PE-Cyanine7 (P3.6.2.8.1)

48-4776 Anti-Human Foxp3 eFluor[®] 450 (PCH101)

51-9882 Anti-Human GARP Alexa Fluor[®] 647 (To Be Discontinued. Refer to Cat. No. 50-9882) (G14D9)

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