# LAP (Latency Associated peptide) Monoclonal Antibody (FNLAP), APC, eBioscience™

| Product Details | |
|---|---|
| Size | 100 Tests |
| Species | Human |
| Published Species | Human |
| Expression System | Mouse / IgG1, kappa |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | FNLAP |
| Conjugate | APC |
| 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_2573316 |

| Applications | Tested Dilution | Publications |
|---|---|---|
| Flow Cytometry (Flow) | 5 µL (0.5 µg)/test | 5 Publications |

### Product Specific Information

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.

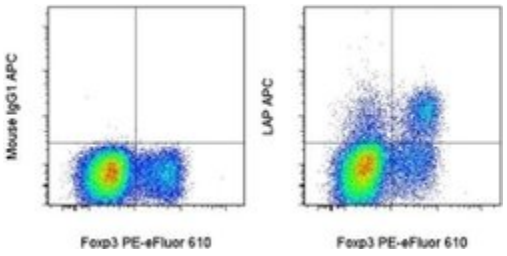
Applications Reported: This FNLAP antibody has been reported for use in flow cytometric analysis.

Applications Tested: This FNLAP antibody has been pre-titrated and tested by flow cytometric analysis of stimulated normal human peripheral blood cells using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523) and protocol. Please refer to Best Protocols: Protocol B: One step protocol for (nuclear) intracellular proteins located under the Resources Tab online. This can be used at 5 µL (0.5 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: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For LAP (Latency Associated peptide) Monoclonal Antibody (FNLAP), APC, eBioscience™




**LAP (Latency Associated peptide) Antibody (17-9829-42) in Flow**
Normal human peripheral blood cells were stimulated overnight with Human IL-2 Recombinant Protein (Product # 14-8029-81), Anti-Human CD3, and Anti-Human CD28 Functional Grade Purifieds (Product # 16-0037-81 and Product # 16-0289-81). These cells were then stained with Fixable Viability Dye eFluor® 450 (Product # 65-0863-14), followed by surface staining with Mouse IgG1 K Isotype Control APC (Product # 17-4714-81) (left) or Anti-Human LAP (Latency Associated Peptide) APC (right), then intracellular staining with Anti-Human Foxp3 PE-eFluor® 610 (Product # 61-4776-42) using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Viable CD4+ lymphocytes were used for analysis.

### View more figures on thermofisher.com

## 5 References

### Flow Cytometry (5)

**JCI insight**

**Systematic testing and specificity mapping of alloantigen-specific chimeric antigen receptors in regulatory T cells.**

"Published figure using LAP (Latency Associated peptide) monoclonal antibody (Product # 17-9829-42) in Flow Cytometry"

Authors: Dawson NA,Lamarche C,Hoeppli RE,Bergqvist P,Fung VC,McIver E,Huang Q,Gillies J,Speck M,Orban PC, Bush JW,Mojibian M,Levings MK

**Species**
Not Applicable

**Dilution**
Not Cited

**Year**
2019

**Oncotarget**

**Surrogate in vitro activation of innate immunity synergizes with interleukin-7 to unleash rapid antigen-driven outgrowth of CD4+ and CD8+ human peripheral blood T-cells naturally recognizing MUC1, HER2 /neu and other tumor-associated antigens.**

"17-9829 was used in Flow cytometry/Cell sorting to create a mechanistically rational culture sequence, enabling rapid preparation of T-cells recognizing tumor-associated antigens expressed by the majority of human cancer."

Authors: Pathangey LB,McCurry DB,Gendler SJ,Dominguez AL,Gorman JE,Pathangey G,Mihalik LA,Dang Y,Disis ML, Cohen PA

**Species**
Human

**Dilution**
Not Cited

**Year**
2017

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