

# LAP (Latency Associated peptide) Monoclonal Antibody (FNLAP), eFluor 450, eBioscience™

Product Details	
Size	100 Tests
Species	Human
Expression System	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	FNLAP
Conjugate	eFluor® 450
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_2574133

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	4 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.

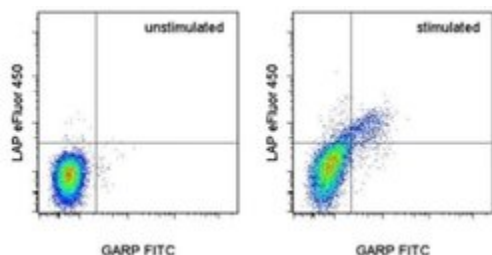
Applications Tested: This FNLAP antibody has been pre-titrated and tested by flow cytometric analysis of stimulated normal human peripheral blood cells. This can be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells /test.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For LAP (Latency Associated peptide) Monoclonal Antibody (FNLAP), eFluor 450, eBioscience™



### LAP (Latency Associated peptide) Antibody (48-9829-42) in Flow

Normal human peripheral blood cells were unstimulated (left) or stimulated with Anti-Human CD3 Functional Grade Purified (Product # 16-0037-81), Anti-Human CD28 Functional Grade Purified (Product # 16-0289-81), and Human IL-2 Recombinant Protein Carrier-Free (Product # 34-8029-85) for 1 day (right), and then stained with Anti-Human CD4 eFluor® 660 (Product # 50-0048-42), Anti-Human GARP FITC (Product # 11-9882-42), and Anti-Human LAP (Latency Associated Peptide) eFluor® 450. CD4+ cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](#)

## 4 References

### Flow Cytometry (4)

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 # 48-9829-42) in Flow Cytometry"

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

Species

Not Applicable

Dilution

Not Cited

Year

2019

Nature cell biology

#### NOTCH1 mediates a switch between two distinct secretomes during senescence.

"Published figure using LAP (Latency Associated peptide) monoclonal antibody (Product # 48-9829-42) in Flow Cytometry"

Authors: Hoare M, Ito Y, Kang TW, Weekes MP, Matheson NJ, Patten DA, Shetty S, Parry AJ, Menon S, Salama R, Antrobus R, Tomimatsu K, Howat W, Lehner PJ, Zender L, Narita M

Species

Not Applicable

Dilution

Not Cited

Year

2016

[View more Flow references on thermofisher.com](#)

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