

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

Product Details	
Size	100 Tests
Species Reactivity	Human
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	FNLAP
Conjugate	PE
Excitation/Emission Max	565/576 nm
Immunogen	E. coli derived hLAP-TGFb, mixed with VB3A9
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10804880

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.

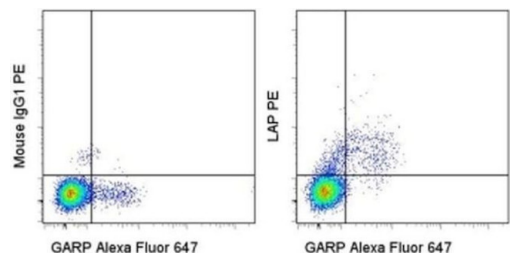
**Applications Reported:** This FNLAP antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This FNLAP antibody has been pre-titrated and tested by flow cytometric analysis of stimulated normal human peripheral blood cells. 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.

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

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

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



**LAP (Latency Associated peptide) Antibody (12-9829-42) in Flow**  
Normal human peripheral blood cells were stimulated with anti-CD3, anti-CD28 and recombinant human IL-2 for 1 day, and then stained with Anti-Human CD4 FITC (Product # 11-0048-42), Anti-Human GARP Alexa Fluor® 647 (Product # 51-9882) and Mouse IgG1 K Isotype Control PE (Product # 12-4714-81) (left) or Anti-Human LAP (Latency Associated Peptide) PE (right). CD4+ cells in the lymphocyte gate were used for analysis.

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

5 References

Flow Cytometry (5)

<p>eLife</p> <p><b>Dendritic cell Piezo1 directs the differentiation of T<sub>H</sub>1 and T<sub>reg</sub> cells in cancer.</b></p> <p>"Published figure using LAP (Latency Associated peptide) monoclonal antibody (Product # 12-9829-42) in Flow Cytometry"</p> <p>Authors: Wang Y,Yang H,Jia A,Wang Y,Yang Q,Dong Y,Hou Y,Cao Y,Dong L,Bi Y,Liu G</p>	<p>Year</p> <p>2022</p>
<p>JCI insight</p> <p><b>Systematic testing and specificity mapping of alloantigen-specific chimeric antigen receptors in regulatory T cells.</b></p> <p>"Published figure using LAP (Latency Associated peptide) monoclonal antibody (Product # 12-9829-42) in Flow Cytometry"</p> <p>Authors: Dawson NA,Lamarche C,Hoepli RE,Bergqvist P,Fung VC,Mclver E,Huang Q,Gillies J,Speck M,Orban PC, Bush JW,Mojibian M,Levings MK</p>	<p>Year</p> <p>2019</p>

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

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.