

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

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Mouse, 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	6 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.

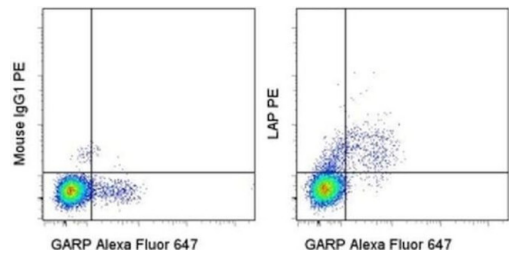
Applications Reported: This FNLAP antibody has been reported for use in flow cytometric analysis.

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 10⁵ to 10⁸ 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.

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6 References

Flow Cytometry (6)

<p>eLife</p> <p>Dendritic cell Piezo1 directs the differentiation of T_H1 and T_{reg} cells in cancer.</p> <p>"12-9829-42 was used in Flow Cytometry to demonstrate the role of the dendritic cells-based mechanical regulation of immunopathology in directing T cell lineage commitment in tumor microenvironments."</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 2022</p> <p>Species Mouse</p> <p>Dilution 1:100</p>
<p>JCI insight</p> <p>Systematic testing and specificity mapping of alloantigen-specific chimeric antigen receptors in regulatory T cells.</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, Hoeppli RE, Bergqvist P, Fung VC, McIver E, Huang Q, Gillies J, Speck M, Orban PC, Bush JW, Mojibian M, Levings MK</p>	<p>Year 2019</p>

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