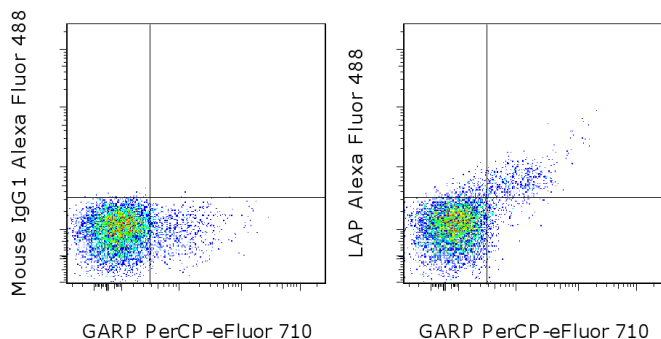


Anti-Human LAP (Latency Associated Peptide) Alexa Fluor[®] 488

Catalog Number: 53-9828

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 for 1 day with Anti-Human CD3 and Anti-Human CD28 Functional Grade Purifieds (cat. 16-0037 and 16-0289) and Human IL-2 Recombinant Protein (cat. 14-8029) then stained with Anti-Human CD4 PE (cat. 12-0049), Anti-Human GARP PerCP-eFluor[®] 710 (cat. 46-9882) and Mouse IgG1 K Isotype Control Alexa Fluor[®] 488 (cat. 53-4714) (left) or Anti-Human LAP (Latency Associated Peptide) Alexa Fluor[®] 488 (right). CD4⁺ cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human LAP (Latency Associated Peptide) Alexa Fluor[®] 488

Catalog Number: 53-9828

Clone: TW4-2F8

Concentration: 5 μ L (0.5 μ g)/test

Host/Isotype: Mouse IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide

REF



LOT



Description

The TW4-2F8 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 TW4-2F8 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This TW4-2F8 antibody has been pre-titrated and tested by flow cytometric analysis of stimulated normal human peripheral blood cells. This can be used at 5 μ L (0.5 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

References

Mantel PY, Schmidt-Weber CB. Transforming growth factor-beta: recent advances on its role in immune tolerance. *Methods Mol Biol.* 2011;677:303-38.

Oida T, Weiner HL. Overexpression of TGF-beta 1 gene induces cell surface localized glucose-regulated protein 78-associated latency-associated peptide/TGF-beta. *J Immunol.* 2010 Sep 15;185(6):3529-35 (TW4-2F8, FC, WB, IP, Pubmed)

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Tran DQ, Andersson J, Wang R, Ramsey H, Unutmaz D, Shevach EM. GARP (LRRC32) is essential for the surface expression of latent TGF-beta on platelets and activated FOXP3+ regulatory T cells. Proc Natl Acad Sci U S A. 2009 Aug 11;106(32):13445-50.

Related Products

12-0049 Anti-Human CD4 PE (RPA-T4)

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)

46-9882 Anti-Human GARP PerCP-eFluor® 710 (G14D9)

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

53-4714 Mouse IgG1 K Isotype Control Alexa Fluor® 488 (P3.6.2.8.1)

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