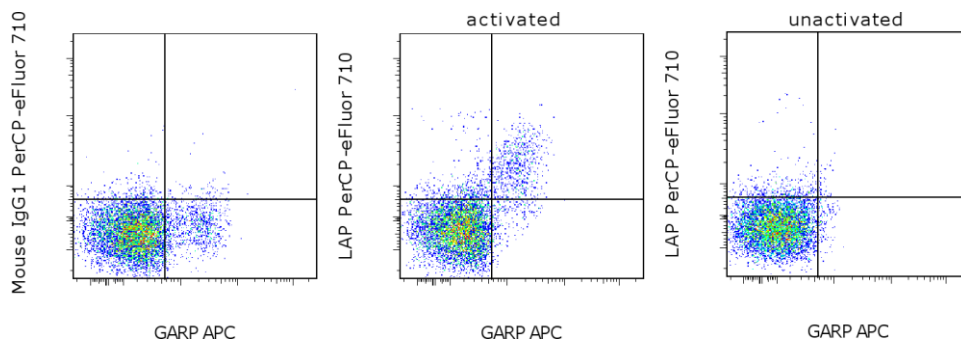


Anti-Mouse LAP (Latency Associated Peptide) PerCP-eFluor[®] 710

Catalog Number: 46-9821

Also known as: Pro-TGF beta 1, LAP/TGF beta 1

RUO: For Research Use Only. Not for use in diagnostic procedures.



BALB/c splenocytes were stimulated with anti-CD3, anti-CD28 and Mouse IL-2 recombinant protein (left, middle) or unstimulated (right) for 1 day. Cells were stained with Anti-Mouse CD4 PE (cat. 12-0042), Anti-Mouse GARP APC (cat. 17-9891) and 0.125 ug of Mouse IgG1 K Isotype Control PerCP-eFluor[®] 710 (cat. 46-4714) (left) or 0.125 ug of Anti-Mouse LAP (Latency Associated Peptide) PerCP-eFluor[®] 710 (middle & right). CD4+ cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse LAP (Latency Associated Peptide) PerCP-eFluor[®] 710

REF **Catalog Number:** 46-9821

Clone: TW7-16B4

Concentration: 0.2 mg/mL

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



LOT



Description

The TW7-16B4 monoclonal antibody reacts with mouse 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 TW7-16B4 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This TW7-16B4 antibody has been tested by flow cytometric analysis of stimulated mouse splenocytes. This can be used at less than or equal to 0.25 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

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cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PerCP-eFluor[®] 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor[®] 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor[®] 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Click [here](#) or contact eBioscience Technical Support for more information on eFluor[™] Organic Dyes including PerCP-eFluor[®] 710.

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. TGF-beta induces surface LAP expression on murine CD4 T cells independent of Foxp3 induction. *PLoS One.* 2010 Nov 24;5(11):e15523 (**TW7-16B4**, FC, WB, IP, Pubmed)

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

12-0042 Anti-Mouse CD4 PE (RM4-5)

14-8021 Mouse IL-2 Recombinant Protein

16-0031 Anti-Mouse CD3e Functional Grade Purified (145-2C11)

16-0281 Anti-Mouse CD28 Functional Grade Purified (37.51)

17-9891 Anti-Mouse GARP APC (YGIC86)

46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor[®] 710 (P3.6.2.8.1)

48-5773 Anti-Mouse/Rat Foxp3 eFluor[®] 450 (FJK-16s)

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