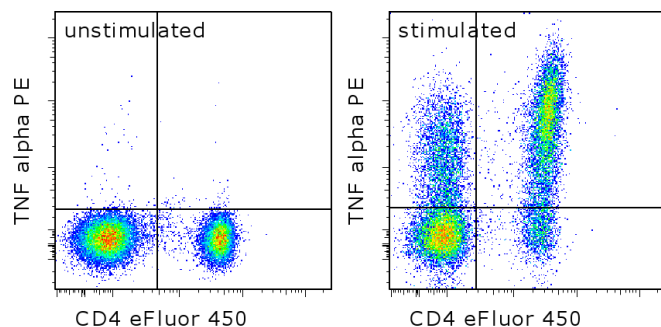


Anti-Mouse TNF alpha PE

Catalog Number: 12-7321

Also known as: Tumor Necrosis Factor alpha

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



Mouse splenocytes were unstimulated (left) or stimulated with Cell Stimulation Cocktail (plus protein transport inhibitors) (cat. 00-4975) (right) for 5 hours. Cells were fixed and permeabilized and stained with Anti-Mouse CD4 eFluor® 450 (cat. 48-0041) and 0.125 ug of Rat IgG1 K Isotype Control PE (cat. 12-4301) or 0.125 ug of Anti-Mouse TNF alpha PE. Viable cells as determined by Fixable Viability Dye eFluor® 780 (cat. 65-0865) in the lymphocyte gate were used for analysis.

Product Information



Contents: Anti-Mouse TNF alpha PE

Catalog Number: 12-7321

Clone: MP6-XT22

Concentration: ug size: 0.2 mg/mL; test size: 5 uL (0.125 ug)/test

Host/Isotype: Rat 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

Description

The MP6-XT22 antibody reacts with mouse tumor necrosis factor-alpha (TNF alpha), a 17 kDa cytokine produced by monocytes, macrophages, neutrophils, NK cells and CD4(+) T cells. TNF alpha has cytolytic activity against a range of tumor cells and is important in immune regulation. TNF alpha forms dimers and trimers and also exists as a 26 kDa membrane-bound form.

Applications Reported

This MP6-XT22 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This MP6-XT22 antibody is tested by intracellular flow cytometric analysis of stimulated splenocytes. It is offered in 2 formats:

- µg size: has been tested by intracellular flow cytometric analysis. 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 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

- test size: has been pre-titrated and tested by intracellular flow cytometric analysis. This can be used at 5 µL (0.125 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.

References

Hunter CA, Litton MJ, et al. 1994. Immunocytochemical detection of cytokines in the lymph nodes and brains of mice resistant or susceptible to toxoplasmic encephalitis. J Infect Dis. 170(4): 939-45.

Litton MJ, Sander B, et al. 1994. Early expression of cytokines in lymph nodes after treatment in vivo with Staphylococcus enterotoxin B. J Immunol Methods 175(1): 47-58.

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Abrams JS, Roncarolo MG, et al. 1992. Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. *Immunol Rev.* 127: 5-24.

Chackerian B, Lowy DR and Schiller JT. 2001. Conjugation of a self-antigen to papillomavirus-like particles allows for efficient induction of protective autoantibodies. *J Clin Invest.* 108(3):415-23. (IHC frozen, PubMed)

Williams RO, Mauri C, et al. 1998. Therapeutic actions of cyclosporine and anti-tumor necrosis factor alpha in collagen-induced arthritis and the effect of combination therapy. *Arthritis Rheum.* 41(10):1806-12. (IHC frozen, PubMed)

Related Products

00-4975 Cell Stimulation Cocktail (plus protein transport inhibitors) (500X)

00-8222 IC Fixation Buffer

00-8333 Permeabilization Buffer (10X)

12-4301 Rat IgG1 K Isotype Control PE

48-0041 Anti-Mouse CD4 eFluor® 450 (GK1.5)

65-0865 Fixable Viability Dye eFluor® 780

88-8823 Fixation & Permeabilization Buffers