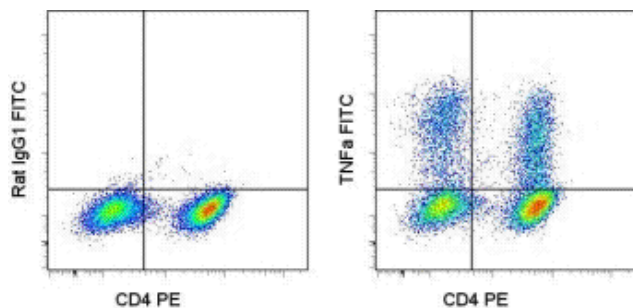


## Anti-Mouse TNF alpha FITC

**Catalog Number:** 11-7321

**Also Known As:** Tumor Necrosis Factor alpha

**RUO: For Research Use Only**



Mouse splenocytes were stimulated with ConA for 2 days, followed by Mouse IL-2 Recombinant Protein (cat. 14-8021) and Mouse IL-4 Recombinant Protein (cat. 14-8041) for 3 days, and re-stimulated with immobilized Anti-Mouse CD3 Functional Grade Purified (cat. 16-0032) and soluble Anti-Mouse CD28 Functional Grade Purified (cat. 16-0281) in the presence of Brefeldin A (cat. 00-4506) for 5 hours. Cells were stained with Anti-Mouse CD4 PE (cat. 12-0041) and 0.06 ug of Rat IgG1 K Isotype Control FITC (cat. 11-4301) (left) or 0.06 ug of Anti-Mouse TNF alpha FITC (right). Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Mouse TNF alpha FITC

**REF** **Catalog Number:** 11-7321

**Clone:** MP6-XT22

**Concentration:** ug size: 0.5 mg/mL; test size: 5 uL (0.06 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.

**LOT** **Batch Code:** Refer to Vial

**Use By:** Refer to Vial

**Caution, contains Azide**

### 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

The MP6-XT22 antibody has been reported for use in ELISA, neutralization, and intracellular staining for flow cytometric analysis.

### Applications Tested

The MP6-XT22 antibody 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 0.125 µg per test. A test is defined as the amount (µg)/test 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. 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 test size: 5 µl (0.06 µg)/per test The pre-titrated test size contains 0.2% BSA.

### References

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

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

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

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

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

**Related Products**

- 11-4301 Rat IgG1 K Isotype Control FITC
- 12-0041 Anti-Mouse CD4 PE (GK1.5)
- 14-8021 Mouse IL-2 Recombinant Protein
- 14-8041 Mouse IL-4 Recombinant Protein
- 16-0032 Anti-Mouse CD3 Functional Grade Purified (17A2)
- 16-0281 Anti-Mouse CD28 Functional Grade Purified (37.51)
- 88-8823 Fixation & Permeabilization Buffers

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