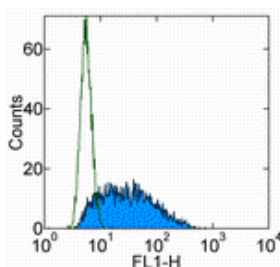


## Anti-Mouse TNF alpha Alexa Fluor® 488

**Catalog Number:** 53-7321

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

**RUO: For Research Use Only**



Intracellular staining of restimulated C57BL/6 splenocytes with staining buffer (autofluorescence) (open histogram) or 0.06 ug of Anti-Mouse TNF alpha Alexa Fluor® 488 (filled histogram). Total cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse TNF alpha Alexa Fluor® 488


**REF** **Catalog Number:** 53-7321

**Clone:** MP6-XT22


**Concentration:** 0.5 mg/mL


**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, IHC, neutralization, and immunofluorescent intracellular staining with flow cytometric analysis. Fluorochrome conjugated MP6-XT22 antibody is recommended for use in intracellular staining.

### Applications Tested

The Alexa Fluor® MP6-XT22 antibody has been tested by intracellular immunofluorescent staining and flow cytometric analysis of activated splenocytes cultured in the presence of monensin. The Alexa Fluor® MP6-XT22 antibody can be used at less than or equal to 0.12 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 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.

### References

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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.

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

53-4301 Rat IgG1 K Isotype Control Alexa Fluor® 488

88-7342 Mouse TNFa (Tumor Necrosis Factor alpha, TNF-alpha, TNF-a) ELISA Ready-SET-Go! Kit (To be discontinued. See replacement item BMS607/2)

88-8823 Fixation & Permeabilization Buffers

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