
Anti-Mouse TNF alpha Functional Grade Purified

Catalog Number: 16-7322

Also Known As: Tumor Necrosis Factor alpha

RUO: For Research Use Only

Product Information

Contents: Anti-Mouse TNF alpha Functional Grade Purified

REF **Catalog Number:** 16-7322

Clone: MP6-XT3

Concentration: 1 mg/mL

Host/Isotype: Rat IgG1, kappa

Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

Description

The MP6-XT3 monoclonal antibody reacts with mouse Tumor Necrosis Factor-alpha (TNF- α), 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-XT3 antibody has been reported for use in cytokine neutralization.

Applications Tested

The Functional Grade Purified MP6-XT3 antibody has been tested by LAL assay to verify low endotoxin level and has been tested for neutralization of TNF- α bioactivity.

The MP6-XT3 antibody at 0.60 ug/ml has been found to neutralize by 50% the biological effects of 1.0 ng/ml mouse TNF- α in an assay of TNF- α induced cytotoxicity of L929 cells. Detailed information and protocols about cytokine bioassays and in vitro cytokine neutralization using antibodies can be found in the BestProtocols[®] section.

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

References

Hunter, C. A., M. J. Litton, 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, M. J., B. Sander, 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, J. S., M. G. Roncarolo, 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.

Related Products

13-7341 Anti-Mouse/Rat TNF alpha Biotin (Polyclonal)

16-4301 Rat IgG1 K Isotype Control Functional Grade Purified

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