full spectrum cell analysis®
eBioscience®

Anti-Mouse TNF alpha Functional Grade Purified

Catalog Number: 16-7321
Also Known As: Tumor Necrosis Factor alpha
RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Mouse TNF alpha Functional Grade Purified
REF **Catalog Number:** 16-7321
Clone: MP6-XT22
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-XT22 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-α has cytolytic activity against a range of tumor cells and is important in immune regulation. TNF-α 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 immunohistochemistry.

Applications Tested

The Functional Grade Purified MP6-XT22 antibody has been tested by LAL assay to verify low endotoxin level and has been tested for neutralization of TNF-α bioactivity.

The MP6-XT22 antibody at 1.25 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

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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

13-7341 Anti-Mouse/Rat TNF alpha Biotin (Polyclonal)
16-4301 Rat IgG1 K Isotype Control Functional Grade Purified
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)