

Product Data Sheet

APC anti-mouse TNF- α

Catalog # / Size: 506307 / 25 µg

506308 / 100 µg

Clone: MP6-XT22 **Isotype:** Rat lgG1, κ

Immunogen: *E. coli*-expressed, recombinant mouse TNF-α

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with

APC under optimal conditions. The solution is free of unconjugated APC and

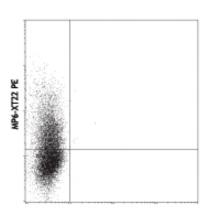
unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.



PMA/Ionomycin-stimulated BALB/c T cells were stained with MP6-XT22 PE

Applications:

Applications: ICFC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric

analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.25 µg per 10⁶ cells in 100 µl

volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: ELISA or ELISPOT Detection: The biotinylated MP6-XT22 antibody is useful as a detection antibody for a sandwich

ELISA or ELISPOT assay, when used in conjunction with purified 6B8 antibody (Cat. No. 510802/510804) as the capture antibody

Flow Cytometry^{6,11,12}: The fluorochrome-labeled MP6-XT22 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify TNF- α -producing cells within mixed cell populations. To view the intracellular cytokine staining protocol, please visit www.biolegend.com and click on the support section.

Neutralization^{1,5,10}: The MP6-XT22 antibody can neutralize the bioactivity of natural or recombinant TNF- α . The

LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for neutralization of mouse TNF-α bioactivity *in vivo* and *in vitro* (Cat. No. 506310). For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 506332) with a lower endotoxin limit than standard LEAF™ purified antibodies (Leaf the relevant formats) includes Western blotting, improved interpretable models and interpretable models.

Additional reported applications (for the relevant formats) include: Western blotting, immunohistochemical staining of paraformaldehyde-fixed, saponin-treated frozen tissue sections⁷⁻⁹, in vivo defection⁵, immunofluorescence,

and immunocytochemistry.

Note: For testing mouse TNF-α in serum, plasma or supernatant, BioLegend's ELISA Max™ Sets (Cat. No. 430901 to 430906) are specially developed and recommended.

Application References: 1. Abrams J, et al. 1992. Immunol. Rev. 127:5. (Neut)

2. Abrams J, *et al.* 1995. *Curr. Prot. Immunol.* John Wiley and Sons, New York. Unit 6.20 3. Mo X, *et al.* 1995. *J. Virol.* 69:1288.

4. Sarawar S, et al. 1994. J. Immunol. 153:1246.

5. Via C, et al. 2001. J. Immunol. 167:6821. (Neut)

Infante-Duarte C, et al. 2000 J. Immunol. 165:6107. (FC)
 Jacobs M, et al. 2000. Immunology 100:494. (IHC)
 Marinova-Mutachieva L, et al. 1997. Clin. Exp. Immunol. 107:507. (IHC)

9. Williams RO, et al. 2000. J. Immunol. 165:7240. (IHC) 10. Scanga CA, et al. 1999. Infect. Immun. 67:4531. (Neut)

11. Akilov OE, *et al.* 2007. *J. Leukoc. Biol.* 2007;10.1189/jlb.0706439. (FC) 12. Lawson BR, *et al.* 2007. *J. Immunol.* 178:5366. (FC) 13. Patole PS, *et al.* 2005. *J. Am. Soc. Nephrol.* 16:3273. PubMed

14. Wu S, et al. 2005. Neurosci Lett. 394:158. PubMed 15. Carlson MJ, et al. 2009. Blood 113:1365. PubMed

Description: TNF- α is secreted by macrophages, monocytes, neutrophils, T-cells (principally CD4+), and NK-cells. Many transformed cell lines also secrete TNF- α . Monomeric mouse TNF- α is a 156 amino acid protein (N-glycosylated) with a reported molecular weight of 17.5 kD. TNF- α forms multimeric complexes; stable trimers are most common in solution. A 26 kD membrane form of TNF- α has also been described. TNF- α binding to surface receptors elicits a wide array of biologic activities including: cytolysis and cytostasis of many tumor cell lines in vitro, hemorrhagic necrosis of tumors in vivo, increased fibroblast proliferation, and enhanced chemotaxis and phagocytosis in



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Antigen References: 1. Fitzgerald K, et al. Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego. 2. Beutler B, et al. 1988. Annu. Rev. Biochem. 57:505. 3. Beutler B, et al. 1989. Annu. Rev. Immunol. 7:625. 4. Tracey K, et al. 1993. Crit. Care Med. 21:S415.

Related Products: Product Application

FC, ICC, ICFC ICC, ICFC ICC, ICFC, IHC Cell Staining Buffer Fixation Buffer Permeabilization Wash Buffer (10X) **ICFC**

Brefeldin A Solution (1,000X) Monensin Solution (1,000X) RBC Lysis Buffer (10X) **ICFC** FC, ICFC FC, ICFC APC Rat IgG1, κ Isotype Ctrl RTK2071



