

Product Data Sheet

LEAF™ Purified anti-mouse / rat TNF-α

Catalog # / Size: 506105 / 50 µg

506106 / 500 µg

Clone: TN3-19.12

Isotype: Armenian Hamster IgG

Immunogen: *E. coli*-expressed, recombinant mouse TNF-α Reactivity: Mouse, Rat, Cross-Reactivity: Rabbit (Lapine)

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity

chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no

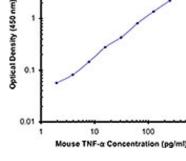
preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the

protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution

contains no preservative; handle under aseptic conditions.



Applications:

Applications: ELISA Capture - Quality tested ELISPOT Capture, Neut, ICFC, IP, WB - Reported in the literature

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For ELISA capture applications, a concentration

range of 2-6 μg/ml is recommended. To obtain a linear standard curve, serial dilutions of mouse TNF-α recombinant protein ranging from 500 to 4 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be

titrated for optimal performance for each application.

Application Notes: ELISA or ELISPOT Capture¹: The purified TN3-19.12 antibody is useful as the capture antibody in a sandwich

ELISA or ELISPOT assay, when used in conjunction with the biotinylated Poly5062 antibody (Cat. No. 506201) as the detecting antibody for detecting mouse/rat TNF-α. The LEAF™ purified antibody is suggested for ELISPOT capture.

For ELISPOT capture, a concentration range of 4-8 µg/ml is recommended.

Application References: 1.

Sheehan K, et al. 1989. J. Immunol. 142:3884.
Merrick BA, et al. 1992. Appl. Theor. Electrophor 2:177.

3. Takahashi S, et al. 1995. Brain Res 690:241.

4. Rabinovich R, et al. 1993. J. Pharmacol. Exp. Ther. 267:1550.

5. Molloy R, et al. 1993. J. Immunol. 151:2142.

6. Finkelman F, et al. 2003. Curr. Prot. Immunol. John Wiley & Sons, New York. Unit 6.28.

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 156 amino acid protein (N-glycosylated) with a reported molecular weight of 17.5 kD protein. 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*, hemorraghic necrosis of tumors *in vivo*, increased fibroblast proliferation, and enhanced chemotaxis and phagocytosis in neutrophils. The TN3-19.12 antibody reacts with mouse, rat, and rabbit tumor-necrosis factor- α (TNF- α) proteins. The

TN3-19.12 antibody can neutralize the bioactivity of natural or recombinant TNF- α .

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.

Tracey, K., et al. 1993. Crit. Care Med. 21:S415.

Related Products: Product Clone Application $\text{rm TNF-}\alpha$ Recombinant Mouse TNF-α BA, ELISA

LEAF™ Purified Armenian Hamster IgG Isotype Ctrl HTK888 FC, ICFC, WB, IP, ICC, IF, FA

