

Product Data Sheet

PE anti-mouse / rat TNF- α

Catalog # / Size: 506104 / 100 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 antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution

is free of unconjugated PE 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

Applications:

Applications: ICFC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometricanalysis. For

immunofluorescent staining, the suggested use of this reagent is ≤ 0.25 µg per million cells in 100 µl volume or 100 µl

of whole blood. 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.

Application References: 1. Sheehan, K., et al. 1989. J. Immunol. 142:3884.

2. Merrick, B.A., 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. 4. Tracey, K., et al. 1993. Crit. Care Med. 21:S415.

Related Products: Product Clone Application

FC, ICC, ICFC ICC, ICFC Cell Staining Buffer Fixation Buffer Permeabilization Wash Buffer (10X) ICC, ICFC, IHC Brefeldin A Solution (1,000X)

ICFC ICFC Monensin Solution (1,000X) RBC Lysis Buffer (10X) FC, ICFC PE Armenian Hamster IgG Isotype Ctrl **HTK888**



