Product Datasheet

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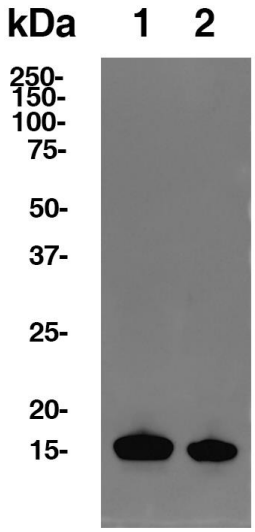
Leinco Technologies, Inc.
excellence in early discovery research™

Anti-Mouse TNFα [Clone TN3-19.12] — Purified *in vivo* GOLD™ Functional Grade

Monoclonal Antibody



Lane 1: 1 ug reduced recombinant mouse TNF-α (Prod. No.T376)

Lane 2: 0.5 ug reduced recombinant mouse TNF-α (Prod. No.T376)

Primary: anti-mouse TNF-α antibody (TN3-19.12) at 8 ug/ml (Prod. No. T258)

Secondary: HRP labeled goat anti-armenian hamster at 1:1000 dilution (Prod. No. A128)

Predicted band size: ~17.5 kDa

Product Information

Product No.:	T258
Clone:	TN3-19.12
RRID:	AB_2737571
Isotype:	Armenian Hamster IgG
Storage:	Sterile 2-8°C

Product Description

Specificity:
Armenian Hamster Anti-Mouse TNFa (Clone TN3-19.12) recognizes Mouse TNFa. This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

Antigen Distribution:
Activated monocytes, neutrophils, macrophages, T cells, B cells, NK cells, LAK cells

Background:
The tumor necrosis factor (TNF-alpha) is a multifaceted polypeptide cytokine known as a mediator of inflammation and immunity.[1] It may mediate some of the significant changes in cellular homeostasis which accompany the invasion of the mammalian host by viruses, bacteria, and parasites.[2] TNF-α is an acute phase protein which initiates a cascade of cytokines and increases vascular permeability, thereby recruiting macrophage and neutrophils to a site of infection. TNF-α secreted by the macrophage causes blood clotting which serves to contain the infection. TNF-α has been detected in synovial fluid of patients with rheumatoid arthritis. Clone TN3-19.12 antibody can neutralize the bioactivity of natural or recombinant TNF-α

Known Reactivity Species:
Mouse

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Format:
in vivo GOLD™, Purified in vivo Functional Grade

Immunogen:
Recombinant mouse TNFα

Formulation
This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Purity
≥95% monomer by analytical SEC, >95% by SDS Page

Endotoxin
< 1.0 EU/mg as determined by the LAL method

Storage and Stability
Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C. **Avoid Repeated Freeze Thaw Cycles.**

Product Preparation
Functional grade preclinical antibodies are manufactured in an animal free facility using *in vitro* cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Applications
Applications and Recommended Usage (Quality Tested By Leinco):

ELISA: Each lot of this antibody is quality control tested by ELISA assay. For use of this antibody as a capture, 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.

Country of Origin
USA

References
1.) El-Harith el-HA *et al.* (2004) *Saudi Med J.* **25**: 135
2.) Adolf GR *et al.* (1990) *Infec Immun.* **58**: 3996
3.) Czepielewski, R. *et al.* (2021) *Immunity* **54**(12):2795-2811.e9 Journal Link

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