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TNF

Armenian Hamster Anti-Mouse TNF-alpha Clone TN3-19.12 mAb

Catalog No.	CSI12345 CSI12346	**Quantity:**	50 µg 0.5 mg

Alternate Names: Tumor necrosis factor-α, Cachectin, Necrosin, Macrophage cytotoxic factor (MCF), Differentiation inducing factor (DIF), TNFSF-2, TNF-alpha,

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.

Concentration: 0.5 mg/ml

Gene ID: 21926

Structure: TNF superfamily; dimer/trimer; 18-150 kD (Mammalian).

Regulation: Type II integral membrane protein processed by TACE for secretion; upregulated by interferons, IL-2, GM-CSF, substance P, bradykinin, PAF, immune complexes, cyclooxygenase; downregulated by IL-6, TGF-β, vitamin D3, prostaglandin E2, PAF antagonists.

Host: Armenian Hamster

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

Isotype: Armenian Hamster IgG

Clone: TN3-19.12

Bioactivity: Paracrine/endocrine mediator of inflammatory and immune functions; selectively cytotoxic for transformed cells; endothelial cell alterations; chemoattractant.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. **Precaution:** Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.

Purification: The antibody was purified by affinity chromatography.

Receptors: TNFRSF1A (TNF-R1, CD120a, TNFR-p60 Type β, p55); TNFRSF1B (TNF-R2, CD120b, TNFR-p80 Type A, p75)

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Reactivity: Mouse, Rat, **Cross-Reactivity:** Rabbit (Lapine)

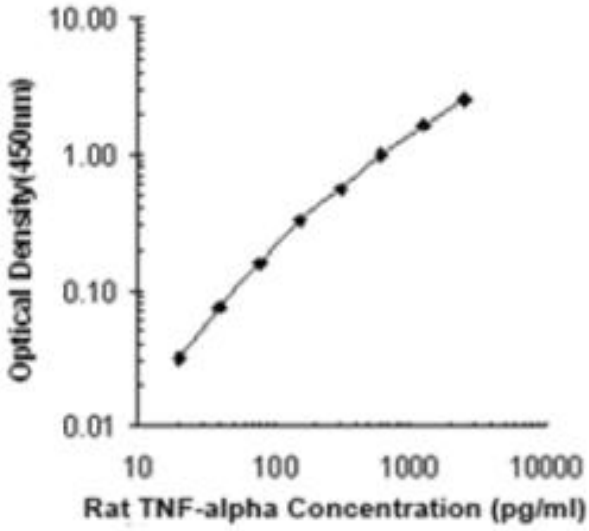
Applications: ELISA Capture, IP, WB

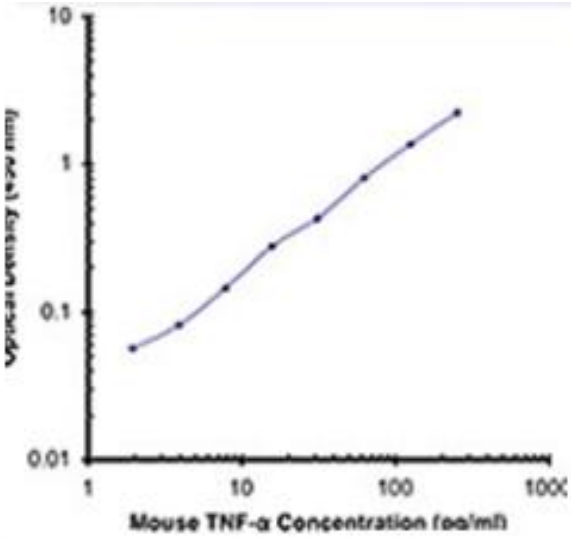
Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For ELISA capture applications, a concentration range of 2-6 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of mouse TNF-α recombinant protein ranging from 500 to 4 pg/ml are recommended for each ELISA plate or serial dilutions of rat TNF-α recombinant protein ranging from 2500 to 20 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.

Storage & Stability: The antibody solution should be stored undiluted at 4 °C.

Cellular Sources: Activated monocytes, neutrophils, macrophages, T cells, B cells, NK cells, LAK cells

Cellular Targets: Monocytes, neutrophils, macrophages, T cells, fibroblasts, endothelial cells, osteoclasts, adipocytes, astroglia, microglia.





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