TNF
Mouse Anti-Human TNF-alpha Clone MAb11 Biotin mAb

Catalog No.	CSI12342 CSI12343	**Quantity:**	50 µg 0.5 mg

Alternate Names: Tumor necrosis factor-α, Cachectin, Necrosin, Macrophage cytotoxic factor (MCF), Differentiation inducing factor (DIF), TNFSF2, TNF-a, 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 human TNF-α is a 157 amino acid protein (non-glycosylated) with a reported molecular weight of 17 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, hemorraghic necrosis of tumors in vivo, increased fibroblast proliferation, and enhanced chemotaxis and phagocytosis in neutrophils.

Concentration: 0.5 mg/ml

Gene ID: 7124

Structure: TNF superfamily; dimer/trimer; 17 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: Mouse

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

Isotype: Mouse IgG1, κ

Clone: MAb11

Bioactivity: Transformed cell cytotoxicity; mediator of inflammatory and immune functions; fibroblast synthesis of GM-CSF, G-CSF, IL-1, collagenase, prostaglandin E2; monocyte terminal differentiation, synthesis of G-CSF; neutrophil 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, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

Receptors:

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

Reactivity: Human, Cross-Reactivity: Chimpanzee, Baboon, Cynomolgus, Rhesus, Pigtailed Macaque, Sooty Mangabey, Swine (Pig, Porcine)

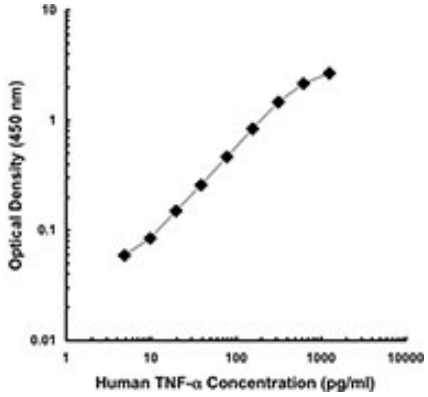
Applications: ELISA Detection, ELISPOT Detection, ICFC

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For ELISA detection applications, a concentration range of 0.25-1.0 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of TNF-α recombinant protein ranging from 500 to 4 pg/ml are recommended for each ELISA plate.
For use as an ELISPOT detection antibody, a concentration range of 0.5-2.0 µg/ml is recommended. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.25 µg per 10^6 cells in 100 µl volume. 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. **Do not freeze.**

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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