TNF
Mouse Anti-Human TNF-alpha Clone MAb1 LE/NA mAb

Catalog No.	CSI12338 CSI12339	**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. The MAb1 antibody can neutralize the bioactivity of natural or recombinant TNF-α.

Concentration: 1.0 mg/ml

Gene ID: 7124

Structure: TNF superfamily; dimer/trimer; 52 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: MAb1

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 no preservative. 0.2 µm filter sterilized. Endotoxin level is < 0.1 EU/µg of the protein (< 0.01 ng/µg of the protein) as determined by the LAL test.

Purification: The LE/NA (Low Endotoxin, Azide-Free) 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: Human

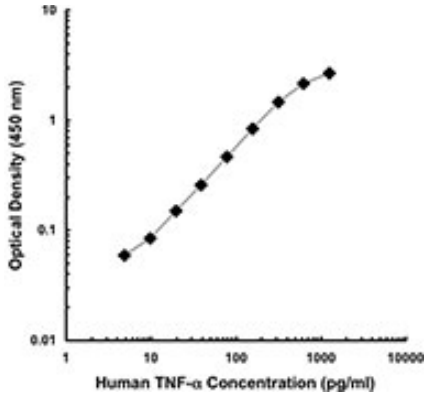
Applications: ELISA Capture, ELISPOT CaptureMouse Anti-Human TNF-alpha Clone MAb1 mAb LE/NA

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISPOT capture antibody, a concentration range of 0.25-1 µg/ml is recommended. For ELISA capture applications, a concentration range of 1-4 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. 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. This LE/NA solution contains no preservative; handle under aseptic conditions.

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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