

Product Data Sheet

LEAF™ Purified anti-human TNF-α

Catalog # / Size: 502803 / 50 µg

502804 / 500 µg

Clone: MAb1

Isotype: Mouse IgG1, κ

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

Reactivity: Human

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity

chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no

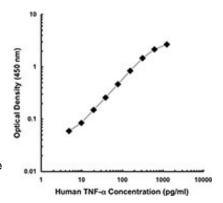
preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the

protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution

contains no preservative; handle under aseptic conditions.



Applications:

Applications: ELISA Capture-Quality tested ELISPOT Capture, Neut, WB - Reported in the literature

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.

Application Notes: ELISA or ELISPOT Capture: The Purified MAb1 antibody is useful as the capture antibody in a sandwich ELISA or

ELISPOT assay, when used in conjunction with the biotinylated MAb11 antibody (Cat. No. 502904/502914) as the detecting antibody. The LEAF™ Purified antibody is suggested for ELISPOT capture.

Application References: 1. Rathjen, D., et al. 1991. Mol. Immunol. 28:79

2. Danis, V., et al. 1991. Clin. Exp. Immunol. 85:143.

3. Wyant, T. L., et al. 1999. Infect. Immun. 67:1338. 4. Nichols, J. E., et al. 2001. J. Virol. 73:5921.

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

MAb11

neutrophils. The MAb1 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.

Biotin anti-human TNF-α

Related Products: Product Clone Application

ELISA Detection, ELISPOT Detection, ICFC, IF LEAF™ Purified Mouse IgG1, κ Isotype Ctrl MOPC-21 FC, ICFC, WB, IP, ICC, IF, FA

Recombinant Human TNF-α rh TNF-α

BA, ELISA HRP Avidin Avidin ELISA, ELISPOT, IHC, WB