

# Product Data Sheet

## LEAF™ Purified anti-mouse TNF-α

**Catalog # / Size:** 510803 / 50 µg  
510804 / 500 µg

**Clone:** 6B8

**Isotype:** Rat IgG1, κ

**Immunogen:** recombinant mouse TNF-α

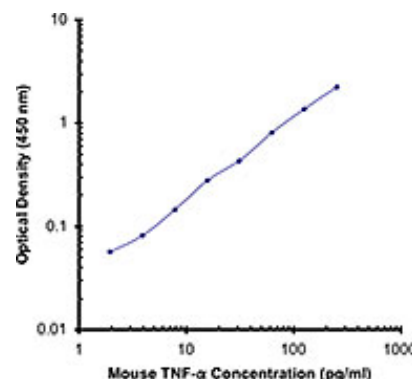
**Reactivity:** Mouse

**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 - Reported in the literature

**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. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** **ELISA or ELISPOT Capture:** The Purified 6B8 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated MP6-XT22 antibody (Cat. No. 506312) as the detecting antibody. The LEAF™ Purified antibody is suggested for ELISPOT capture.  
**Note:** For testing mouse TNF-α in serum, plasma or supernatant, BioLegend's ELISA Max™ Sets (Cat. No. 430901 to 430906) are specially developed and recommended.

**Description:** TNF-α is secreted by macrophages, monocytes, neutrophils, T-cells (principally CD4<sup>+</sup>), 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, hemorrhagic necrosis of tumors in vivo, increased fibroblast proliferation, and enhanced chemotaxis and phagocytosis in neutrophils. The 6B8 antibody reacts with mouse and rat tumor necrosis factor-α (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.

### Related Products:

**Product**  
Recombinant Mouse TNF-α  
HRP Avidin  
TMB Substrate Reagent Set  
ELISA Assay Diluent (5X)  
Biotin anti-mouse TNF-α

**Clone**  
rm TNF-α  
Avidin

MP6-XT22

**Application**  
BA, ELISA  
ELISA, ELISPOT, IHC, WB  
ELISA  
ELISA  
ELISA Detection, ELISPOT  
Detection, ICFC



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