

# Product Data Sheet

## Purified anti-mouse TNF- $\alpha$

**Catalog # / Size:** 510801 / 50  $\mu$ g  
510802 / 500  $\mu$ g

**Clone:** 6B8

**Isotype:** Rat IgG1,  $\kappa$

**Immunogen:** recombinant mouse TNF- $\alpha$

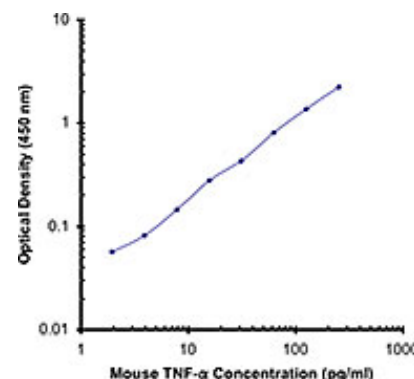
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

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



## Applications:

**Applications:** ELISA Capture-Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by ELISA assay. For ELISA capture applications, a concentration range of 2-6  $\mu$ g/ml is recommended. To obtain a linear standard curve, serial dilutions of mouse TNF- $\alpha$  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- $\alpha$  in serum, plasma or supernatant, BioLegend's ELISA Max™ Sets (Cat. No. 430901 to 430906) are specially developed and recommended.

**Description:** TNF- $\alpha$  is secreted by macrophages, monocytes, neutrophils, T-cells (principally CD4<sup>+</sup>), and NK-cells. Many transformed cell lines also secrete TNF- $\alpha$ . Monomeric mouse TNF- $\alpha$  is 156 amino acid protein (N-glycosylated) with a reported molecular weight of 17.5 kD protein. TNF- $\alpha$  forms multimeric complexes; stable trimers are most common in solution. A 26 kD membrane form of TNF- $\alpha$  has also been described. TNF- $\alpha$  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- $\alpha$  (TNF- $\alpha$ ).

**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- $\alpha$   
HRP Avidin  
TMB Substrate Reagent Set  
ELISA Assay Diluent (5X)  
Biotin anti-mouse TNF- $\alpha$

**Clone**  
rm TNF- $\alpha$   
Avidin

MP6-XT22

### Application

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



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