

## Anti-TNF-alpha (Tumor Necrosis Factor alpha) Monoclonal Antibody

Catalog Number: M00002

### About TNF

**TNF alpha** is a protein secreted by lipopolysaccharide-stimulated macrophages, and causes tumor necrosis when injected into tumor bearing mice. TNF alpha exists as a multimer of two, three, or five non-covalently linked units, but shows a single 17kDa band following SDS PAGE under non-reducing conditions. TNF alpha causes cytolysis of certain transformed cells. Although it has little effect on many cultured normal human cells, TNF alpha appears to be directly toxic to vascular endothelial cells. Other actions of TNF alpha include stimulating growth of human fibroblasts and other cell lines, activating polymorphonuclear neutrophils and osteoclasts, and induction of interleukin 1, prostaglandin E2 and collagenase production. TNF alpha is currently being evaluated in treatment of certain cancers and AIDS Related Complex.

### Overview

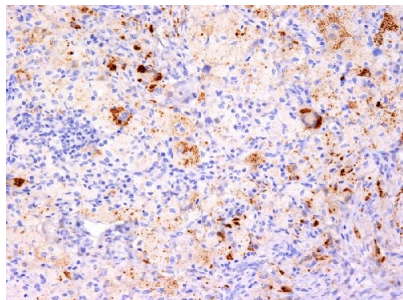
Product Name	Anti-TNF-alpha (Tumor Necrosis Factor alpha) Monoclonal Antibody
Reactive Species	Dog, Human, Mouse, Rabbit, Rat, Zebrafish, Cat
Description	Boster Bio Anti-TNF-alpha (Tumor Necrosis Factor alpha) Monoclonal Antibody (Catalog # M00002). Tested in IHC applications. This antibody reacts with Human, Mouse, Rat, Rabbit, Cat, Dog, Zebrafish.
Conjugate	Biotin
Application	IHC
Clonality	Monoclonal Clone: TNF706 + P/T2
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P01375

### Technical Details

Immunogen	Recombinant N-terminal fragment of human TNF- (TNF706); Peptide corresponding to aa115-130 of human TNF- (P/T2)
Predicted Reactive Species	Chimpanzee
Isotype	IgM, kappa
Form	Liquid

Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunohistochemistry (Formalin-fixed) (2-4ug/ml for 30 min at RT) (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris Buffer with 1mM EDTA, pH 9.0, for 45 min at 95&amp;degC followed by cooling at RT for 20 minutes)</p> <p>Optimal dilution for a specific application should be determined.</p>

## Anti-TNF-alpha (Tumor Necrosis Factor alpha) Monoclonal Antibody (M00002) Images



Formalin-fixed, paraffin-embedded human Erdheim-Chester disease (also known as xanthogranuloma) stained with TNF alpha Monoclonal Antibody (TNF706 + P/T2).

## 59 Publications Citing This Product

1. PubMed ID: 10.3390/molecules23071788, Protection of Anthocyanin from Myrica rubra against Cerebral Ischemia-Reperfusion Injury via Modulation of the TLR4/NF-kappaB and NLRP3 Pathways
2. PubMed ID: PMID:31966705, TLR4 signaling is activated in ventilator-induced diaphragm dysfunction in rats
3. PubMed ID: 10.4103/1673-5374.139461, Neuroprotective effect of pretreatment with ganoderma lucidum in cerebral ischemia/reperfusion injury in rat hippocampus

Visit [bosterbio.com/anti-tnf-alpha-tumor-necrosis-factor-alpha-antibody-m00002-boster.html](https://www.bosterbio.com/anti-tnf-alpha-tumor-necrosis-factor-alpha-antibody-m00002-boster.html) to see all 59 publications.

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