

Datasheet for ABIN3042817

## anti-TNF alpha antibody (AA 80-235)



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1 Image

51 Publications

### Overview

Quantity:	100 µg
Target:	TNF alpha
Binding Specificity:	AA 80-235
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TNF alpha antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Purpose:	Rabbit IgG polyclonal antibody for Tumor necrosis factor(TNF) detection. Tested with WB, IHC-P, ELISA in Mouse.
Immunogen:	E. coli-derived mouse TNF alpha recombinant protein(Position: L80-L235).
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Tumor necrosis factor(TNF) detection. Tested with WB, IHC-P, ELISA in Mouse.</p> <p>Gene Name: tumor necrosis factor</p> <p>Protein Name: tumor necrosis factor</p>
Purification:	Immunogen affinity purified.

## Target Details

Target:	TNF alpha
Alternative Name:	TNF ( <a href="#">TNF alpha Products</a> )
Background:	<p>TNF alpha(Tumor Necrosis Factor alpha) gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor(TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer. Knockout studies in mice also suggested the neuroprotective function of this cytokine.</p> <p>Synonyms: APC1 antibody APC1 protein antibody Cachectin antibody DIF antibody Differentiation inducing factor antibody Macrophage cytotoxic factor antibody MCF antibody Necrosin antibody TNF a antibody TNF alpha antibody TNF antibody TNF Macrophage Derived antibody TNF Monocyte Derived antibody TNF Superfamily Member 2 antibody TNF superfamily, member 2 antibody TNF, macrophage derived antibody TNF, monocyte derived antibody TNF-a antibody  TNF-alpha antibody TNFA antibody TNFA_HUMAN antibody TNFSF2 antibody Tumor necrosis factor alpha antibody Tumor necrosis factor antibody Tumor necrosis factor ligand superfamily member 2 antibody Tumor Necrosis Factor Precursor antibody Tumor Necrosis Factor, Membrane Form antibody Tumor necrosis factor, soluble form antibody Tumour Necrosis Factor Alpha antibody</p>
UniProt:	<a href="#">P06804</a>
Pathways:	<a href="#">NF-kappaB Signaling</a> , <a href="#">Apoptosis</a> , <a href="#">Caspase Cascade in Apoptosis</a> , <a href="#">TLR Signaling</a> , <a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Hepatitis C</a> , <a href="#">Protein targeting to Nucleus</a> , <a href="#">Inflammasome</a>

## Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Species: Mouse</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>ELISA: Concentration: 0.1-0.5 µg/mL, Species: Mouse</p>
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## Application Details

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Notes: Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months

## Publications

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Product cited in: Liu, Li, Liang, Li, Jiang, Chu, Yang: "Hydrogen sulfide attenuates myocardial fibrosis in diabetic rats through the JAK/STAT signaling pathway." in: **International journal of molecular medicine**, Vol. 41, Issue 4, pp. 1867-1876, (2018) ([PubMed](#)).

Sun, Xue, Xue, Ren, Wu, Wang: "Acetylpuerarin protects against OGD-induced cell injury in BV2 microglia by inhibiting HMGB1 release." in: **Die Pharmazie**, Vol. 73, Issue 2, pp. 92-97, (2018) ([PubMed](#)).

Gu, Ding, Tang, Lei, Jiang, Xu: "A Synthesized Glucocorticoid- Induced Leucine Zipper Peptide Inhibits Retinal Müller Cell Gliosis." in: **Frontiers in pharmacology**, Vol. 9, pp. 331, (2018) ([PubMed](#)).

Wang, Li, Chen, Jiang, Lu, Zhao: "Hydrogen sulfide accelerates wound healing in diabetic rats." in: **International journal of clinical and experimental pathology**, Vol. 8, Issue 5, pp. 5097-104, (2016) ([PubMed](#)).

Pan, Wang, Pu, Yao, Wang: "Effect of Puerarin on Expression of ICAM-1 and TNF- $\alpha$  in Kidneys of Diabetic Rats." in: **Medical science monitor : international medical journal of experimental and clinical research**, Vol. 21, pp. 2134-40, (2016) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

## Images



### Western Blotting

**Image 1.** Western blot analysis of TNF alpha using anti-TNF alpha antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V(Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane: Recombinant Mouse TNF $\alpha$ ± Protein 0.5ng, After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TNF alpha antigen affinity purified polyclonal antibody (Catalog # ) at 0.5  $\mu$ g/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TNF alpha at approximately

17KD. The expected band size for TNF alpha is at 17KD.