

Datasheet for ABIN5518792

anti-TNF alpha antibody (C-Term)**1** Image**23** Publications[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	TNF alpha
Binding Specificity:	AA 202-235, C-Term
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TNF alpha antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-TNF alpha Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of mouse TNF alpha, different from the related human sequence by five amino acids, and from the related rat sequence by three amino acids.
Sequence:	FQLEKGDQLS AEVNLPKYLD FAESGQVYFG VIAL
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-TNF alpha Antibody Picoband® (ABIN5518792). Tested in WB applications. This antibody reacts with Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring

Product Details

unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: TNF alpha

Alternative Name: Tnf ([TNF alpha Products](#))

Background: Synonyms: Tumor necrosis factor; Cachectin; TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a; Tumor necrosis factor, membrane form; N-terminal fragment; NTF; Intracellular domain 1; ICD1; Intracellular domain 2; ICD2; C-domain 1; C-domain 2; Tumor necrosis factor, soluble form; Tnf; Tnfa, Tnfsf2;

Tissue Specificity: Isoform 1 is detected in aorta and testis. Isoform 2 is detected in aorta. .

Background: TNF α (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. And this cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. Moreover, 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.

Molecular Weight: 25 kDa

Gene ID: 21926

UniProt: [P06804](#)

Pathways: [NF-kappaB Signaling](#), [Apoptosis](#), [Caspase Cascade in Apoptosis](#), [TLR Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Positive Regulation of Endopeptidase Activity](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [Inflammasome](#)

Application Details

Application Notes: Western blot, 0.1-0.5 μ g/mL, Mouse

1. Pennica, D., Nedwin, G. E., Hayflick, J. S., Seeburg, P. H., Derynck, R., Palladino, M. A., Kohr, W. J., Aggarwal, B. B., Goeddel, D. V. Human tumour necrosis factor: precursor structure,

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expression and homology to lymphotoxin. *Nature* 312: 724-729, 1984. 2. Shirai, T., Yamaguchi, H., Ito, H., Todd, C. W., Wallace, R. B. Cloning and expression in *Escherichia coli* of the gene for human tumour necrosis factor. *Nature* 313: 803-806, 1985.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

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 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 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.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

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- α 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 1: mouse thymus tissue lysates. 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 μ 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 25KD. The expected band size for TNF alpha is at 25KD.