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Datasheet for ABIN3042522

## anti-TNF alpha antibody (AA 89-235)

1 Image

57 Publications

### Overview

Quantity:	100 µg
Target:	TNF alpha
Binding Specificity:	AA 89-235
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TNF alpha antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Purpose:	Rabbit IgG polyclonal antibody for Tumor necrosis factor(TNF) detection. Tested with WB in Rat.
Brand:	Picoband™
Immunogen:	E.coli-derived rat TNF alpha recombinant protein (Position: D89-L235). Rat TNF alpha shares 95% amino acid (aa) sequence identity with mouse TNF alpha.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Tumor necrosis factor(TNF) detection. Tested with WB in Rat. Gene Name: tumor necrosis factor Protein Name: Tumor necrosis factor

## Product Details

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Purification: Immunogen affinity purified.

## Target Details

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Target: TNF alpha

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

Background: 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.

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

UniProt: [P16599](#)

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

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat, The detection limit for TNF alpha is

## Application Details

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approximately 1 ng/lane under reducing conditions.

Notes: Tested Species: Species with positive results.

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.

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 5 mg BSA, 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.

## Publications

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Product cited in: Qian, Feng, Sun, Xiong, Ding, Han, Chen, Chen, Du, Wang: "Overexpression of Salusin-α Inhibits Vascular Intimal Hyperplasia in an Atherosclerotic Rabbit Model." in: **BioMed research international**, Vol. 2018, pp. 8973986, (2019) ([PubMed](#)).

Xie, Li, Pi, Wu, Zeng, Zuo, Zha: "[Down-regulation of p38 MAPK and collagen by 1, 25-(OH)<sub>2</sub>-VD<sub>3</sub> in rat models of diabetic nephropathy]." in: **Xi bao yu fen zi mian yi xue za zhi = Chinese journal of cellular and molecular immunology**, Vol. 32, Issue 7, pp. 931-5, (2017) ([PubMed](#)).

Li, Lu, Sun, Zuo, Wang, Yan: "Inhibition of endoplasmic reticulum stress signaling pathway: A new mechanism of statins to suppress the development of abdominal aortic aneurysm." in:

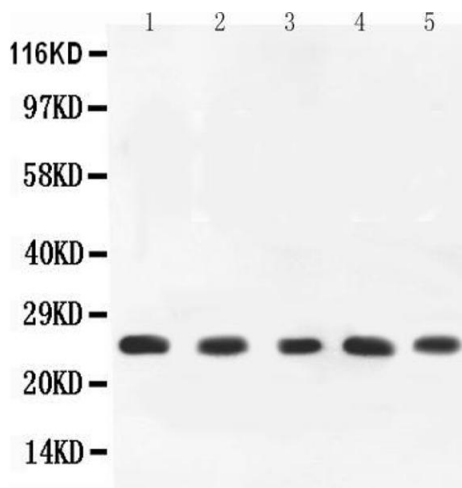
**PLoS ONE**, Vol. 12, Issue 4, pp. e0174821, (2017) ([PubMed](#)).

Wu, Chang, Ren, Hu, Li, Liu: "Bindarit reduces the incidence of acute aortic dissection complicated lung injury via modulating NF- $\kappa$ B pathway." in: **Experimental and therapeutic medicine**, Vol. 14, Issue 3, pp. 2613-2618, (2017) ([PubMed](#)).

Sun, Zhang, Zhao, Zhen, Huang, Wang, He, Liu, Xu, Yang, Qu, Ma, Zhang, Zhang, Hu: "Attenuation of atherosclerotic lesions in diabetic apolipoprotein E-deficient mice using gene silencing of macrophage migration inhibitory factor." in: **Journal of cellular and molecular medicine**, Vol. 19, Issue 4, pp. 836-49, (2016) ([PubMed](#)).

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

Images



**Western Blotting**

**Image 1.** Anti-TNF alpha Picoband antibody, All lanes: Anti-TNF alpha at 0.5ug/ml Lane 1: PC-12 Whole Cell Lysate at 40ug Lane 2: Rat Spleen Tissue Lysate at 40ug Lane 3: Rat Brain Tissue Lysate at 40ug Lane 4: Rat Kidney Tissue Lysate at 40ug Lane 5: Rat Liver Tissue Lysate at 40ug Predicted bind size: 26KD Observed bind size: 26KD