

Datasheet for ABIN3043313
anti-TNF alpha antibody (AA 80-227)

2 Images

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Overview

Quantity:	100 µg
Target:	TNF alpha
Binding Specificity:	AA 80-227
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Tumor necrosis factor(TNF) detection. Tested with WB in Mouse.
Immunogen:	E.coli-derived mouse TNF alpha recombinant protein (Position: L80-Q227). Mouse TNF alpha shares 79% and 95% amino acid (aa) sequence identity with human and rat TNF alpha, respectively.
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 Mouse. Gene Name: tumor necrosis factor Protein Name: Tumor necrosis factor
Purification:	Immunogen affinity purified.

Target Details

Target:	TNF alpha
Alternative Name:	TNF (TNF alpha Products)
Background:	<p>TNFA(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/TNFB. 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>
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:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, The detection limit for TNF alpha is approximately 0.25 ng/lane under reducing conditions. Notes: Tested Species: Species with positive results.
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Application Details

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

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.

Handling Advice: Avoid repeated freezing and thawing.

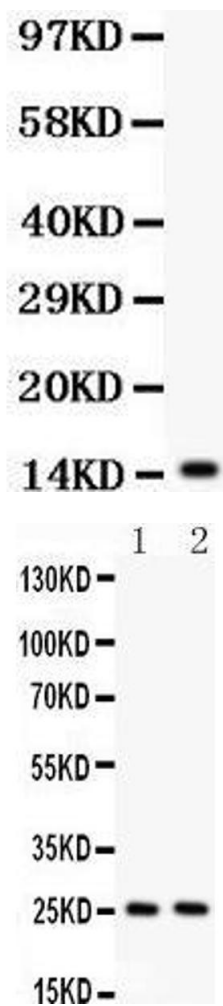
Storage: 4 °C/-20 °C

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

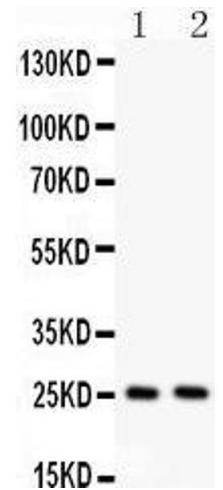
Product cited in: Xu, Tang, Li, Shi, Chen, Liang: "Positional and expressive alteration of prohibitin during the induced differentiation of human hepatocarcinoma SMMC-7721 cells." in: **World journal of gastroenterology**, Vol. 14, Issue 32, pp. 5008-14, (2008) ([PubMed](#)).

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



Western Blotting

Image 1. Anti- TNF alpha Picoband antibody, Western blotting All lanes: Anti TNF alpha at 0.5ug/ml WB: Recombinant Mouse TNF alpha Protein 0.5ng Predicted bind size: 15KD Observed bind size: 15KD



Western Blotting

Image 2. Anti- TNF alpha Picoband antibody, Western blotting All lanes: Anti TNF alpha at 0.5ug/ml Lane 1: Mouse Kidney Tissue Lysate at 50ug Lane 2: Mouse Intestine Tissue Lysate at 50ug Predicted bind size: 25KD Observed bind size: 25KD