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

### Overview

<table>
<thead>
<tr>
<th>Quantity</th>
<th>100 μg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target</td>
<td>TNF alpha</td>
</tr>
<tr>
<td>Binding Specificity</td>
<td>AA 80-227</td>
</tr>
<tr>
<td>Reactivity</td>
<td>Mouse</td>
</tr>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Application</td>
<td>Western Blotting (WB)</td>
</tr>
</tbody>
</table>

### Product Details

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Rabbit IgG polyclonal antibody for Tumor necrosis factor(TNF) detection. Tested with WB in Mouse.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunogen</td>
<td>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.</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
<tr>
<td>Cross-Reactivity (Details)</td>
<td>No cross reactivity with other proteins.</td>
</tr>
</tbody>
</table>
| 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:
TNFα (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/TNFBR. 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 beta 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|TNF 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

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.
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


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

**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