

## Basic Information

<b>Product Name</b>	Anti-TNF Alpha/TNFA Antibody
<b>Gene Name</b>	TNF
<b>Source</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Species Reactivity</b>	human
<b>Tested Application</b>	WB, ELISA(Cap)
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.
<b>Immunogen</b>	E. coli-derived human TNF alpha recombinant protein (Position: V77-L233).
<b>Concentration</b>	500 ug/ml
<b>Purification</b>	Immunogen affinity purified.
<b>Observed MW</b>	17 kDa
<b>Dilution Ratios</b>	Western blot (WB):1:500-2000 ELISA(Cap): 1:50-1:200

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

TNF(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.

## Selected Validation Data

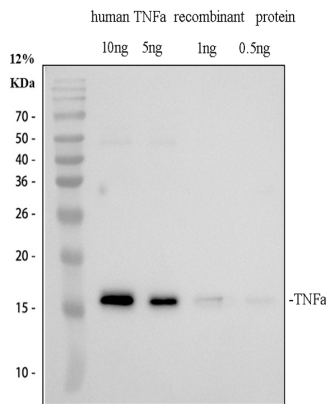


Figure 1. Western blot analysis of TNF Alpha/TNFA using anti-TNF Alpha/TNFA antibody (A00002-3).

Lane 1: recombinant human TNF Alpha/TNFA protein 10 ng,

Lane 2: recombinant human TNF Alpha/TNFA protein 5 ng,

Lane 3: recombinant human TNF Alpha/TNFA protein 1 ng,

Lane 4: recombinant human TNF Alpha/TNFA protein 0.5 ng.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-TNF Alpha/TNFA antigen affinity purified polyclonal antibody (A00002-3) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054).

The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for TNF Alpha/TNFA at approximately 17 kDa.