

# TNF- $\alpha$ Rabbit mAb

Catalog No.: A22227 **Recombinant** **17 Publications**

## Basic Information

### Observed MW

18 kDa/25 kDa

### Calculated MW

26 kDa

### Category

Primary antibody

### Applications

WB,IP,IF/ICC,ELISA

### Cross-Reactivity

Human

### CloneNo number

ARC52531

## Background

This 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/TNFR2. 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, psoriasis, rheumatoid arthritis ankylosing spondylitis, tuberculosis, autosomal dominant polycystic kidney disease, and cancer. Mutations in this gene affect susceptibility to cerebral malaria, septic shock, and Alzheimer disease. Knockout studies in mice also suggested the neuroprotective function of this cytokine.

## Recommended Dilutions

**WB** 1:10000 - 1:40000

**IP** 0.5 $\mu$ g-4 $\mu$ g antibody for  
200 $\mu$ g-400 $\mu$ g extracts of  
whole cells

**IF/ICC** 1:1000 - 1:3000

**ELISA** Recommended starting  
concentration is 1  $\mu$ g/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

## Contact

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## Immunogen Information

### Gene ID

7124

### Swiss Prot

P01375

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha; TNF- $\alpha$

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

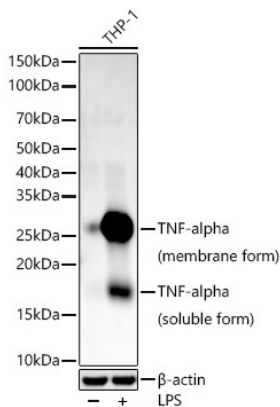
Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

## Validation Data



Western blot analysis of various lysates, using TNF- $\alpha$  Rabbit mAb (A22227) at 1:34000 dilution. THP-1 cells were treated with LPS (1  $\mu$ g/ml) at 37°C for 8 hours.

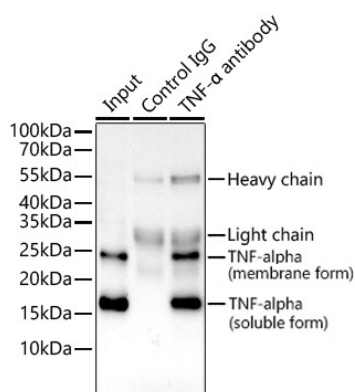
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 $\mu$ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

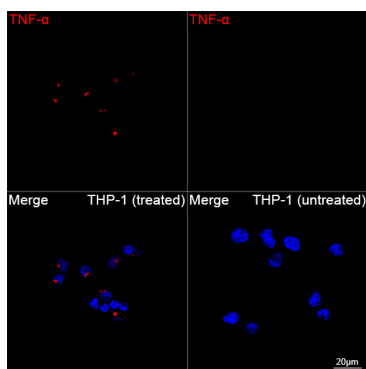
Exposure time: 90s.



Immunoprecipitation of TNF- $\alpha$  from 300  $\mu$ g extracts of THP-1 cells treated with IFN- $\gamma$  (200 ng/mL, 24h), LPS (50 ng/mL, 24h) and BFA (50 ng/mL, 21h) was performed using 1  $\mu$ g of TNF- $\alpha$  Rabbit mAb (A22227).

Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of

immunoprecipitates was conducted using TNF- $\alpha$  Rabbit mAb (A22227) at a dilution of 1 : 4000.



Confocal imaging of THP-1 cells (treated with TPA and LPS) and THP-1 cells (untreated) using TNF- $\alpha$  Rabbit mAb (A22227, dilution 1:3000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.