

TNF- α Rabbit pAb

Catalog No.: A11534SP **237 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, Mouse

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 1:1000 - 1:3000

IP 0.5 μ g-4 μ g antibody for
200 μ g-400 μ g extracts of
whole cells

IF/ICC 1:1000 - 1:3000

ELISA Recommended starting
concentration is 1 μ g/mL.
Please optimize the
concentration based on
your specific assay
requirements. For high-
ratio antibody dilutions
(\geq 1:10000) a sequential
dilution method is
strongly recommended
to ensure measurement
accuracy.

Immunogen Information

Gene ID

7124

Swiss Prot

P01375

Immunogen

This information is considered to be commercially sensitive.

Synonyms

DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha; TNF- α

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

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

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide.

May contain 0.05% BSA as specified on the Certificate of Analysis.

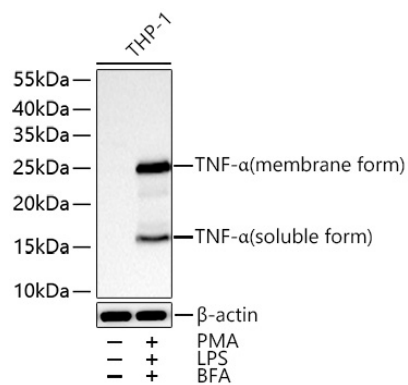
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Validation Data



Western blot analysis of various lysates using TNF- α Rabbit pAb (A11534SP) at 1:1000 dilution incubated overnight at 4°C. THP-1 cells were treated with PMA (80 nM) at 37°C for 48 hours, LPS (100 ng/mL) at 37°C for overnight and BFA (300 ng/mL) at 37°C for 6 hours.

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

Lysates/proteins: 30 μ g per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 20 s.