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TNF-α Rabbit mAb

Catalog No.: A22227 Recombinant 8 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/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, 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	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
IF/ICC	1:1000 - 1:3000
ELISA	Recommended starting concentration is 1 μg/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-α

Product Information

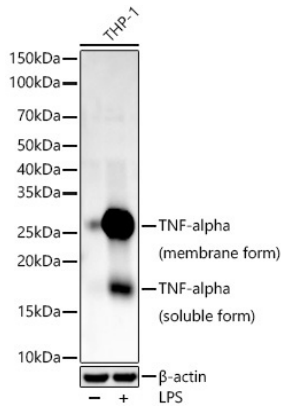
Source
Rabbit

Isotype
IgG

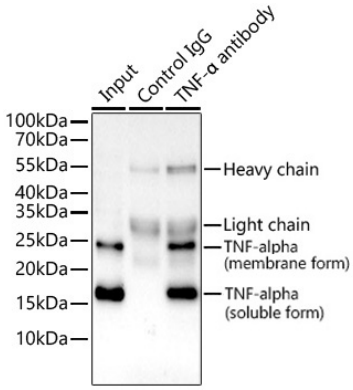
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% sodium azide,0.05% BSA,50% glycerol,pH7.3.

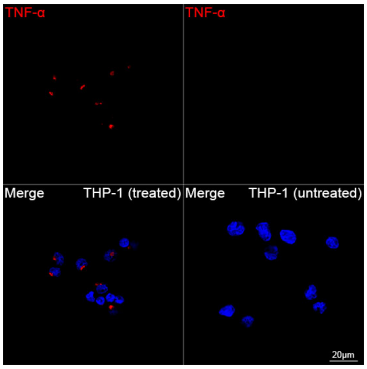
Validation Data



Western blot analysis of various lysates, using TNF-α Rabbit mAb (A22227) at1:34000 dilution. THP-1 cells were treated with LPS (1 μg/ml) at 37℃ for 8 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



Immunoprecipitation of TNF-α from 300 μg extracts of THP-1 cells treated with IFN-γ (200 ng/mL, 24h) , LPS (50 ng/mL, 24h) and BFA (50 ng/mL, 21h) was performed using 1 μg of TNF-α Rabbit mAb (A22227). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1× Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using TNF-α 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-α 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.