Product Data Sheet
TNF-α Rabbit Polyclonal Antibody

Product name:	TNF-α Rabbit Polyclonal Antibody
Cat number:	ABE3623
Conjugate:	Unconjugated
Host:	Rabbit
Size:	100 ug
Synonyms:	DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha; TNF-α
Clone:	Polyclonal
Concentration:	1mg/ml
Isotype:	IgG
Immunogen:	Recombinant protein.This information is considered to be commercially sensitive.
Reactivity:	Human
Applications:	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.
Molecular Weight:	18 kDa/25 kDa
Purification:	Affinity purification
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.
Form:	liquid
Buffer:	PBS with 0.09% sodium azide,0.05% BSA,50% glycerol,pH7.3.
Storage:	Store at -20℃. Avoid freeze / thaw cycles.

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Web-site: https://immunologicalsciences.com - E-mail: info@immunologicalsciences.com

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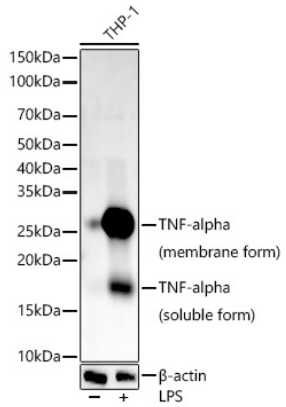
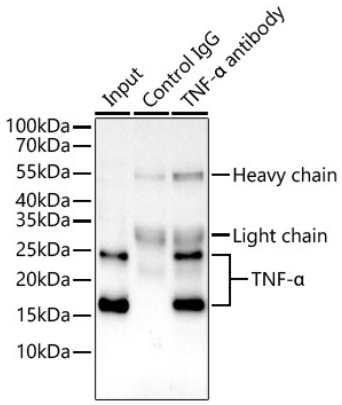


Western blot analysis of various lysates, using TNF-α Rabbit pAb at1:34000 dilution. THP-1 cells were treated with LPS (1 μg/ml) at 37℃ for 8 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25μg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL West Pico plus. 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 pAb . Rabbit Control IgG 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 PAb at a dilution of 1 : 4000.