

TNF alpha Rabbit PolymAb®**Catalog No.: A30091PM****Recombinant****Basic Information****Observed MW**17 kDa(mature form),25/28 kDa
(precursor),51 kDa(trimer)**Calculated MW**

26 kDa

Category

Monoclonal Antibodies

Applications

WB, IP, IF/ICC, IHC-P, ELISA

Cross Reactivity

Human, Mouse, Rat

Clone No.

ARC4063_ARC4063

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/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, 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** 1:2000 - 1:10000**IP**0.5 µg - 4 µg antibody for 200 µg -
400 µg extracts of whole cells**IF/ICC** 1:200 - 1:800**IHC-P** 1:400 - 1:1600**ELISA**

Recommended starting concentration is 1 µg/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; IMD127; TNFSF2; TNLG1F; TNF-alpha

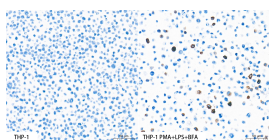
Contact

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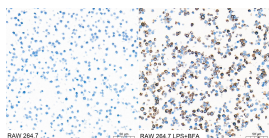
Product Information

Source	Isotype	Purity
Rabbit	IgG	Affinity purification
Storage		
Store at -20°C		

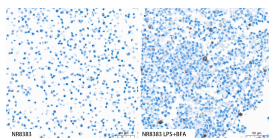
Validation Data



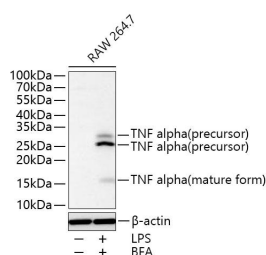
Immunohistochemistry analysis of paraffin-embedded THP-1 cells, untreated (left) and PMA, LPS and BFA-treated (right), using TNF alpha Rabbit PolymAb® (A30091PM) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded RAW 264.7 cells, untreated (left) and LPS and BFA-treated (right), using TNF alpha Rabbit PolymAb® (A30091PM) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded NR8383 cells, untreated (left) and LPS and BFA-treated (right), using TNF alpha Rabbit PolymAb® (A30091PM) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Western blot analysis of lysates from RAW 264.7 cells using TNF alpha Rabbit PolymAb® (A30091PM) at 1:5000 dilution incubated overnight at 4°C. RAW 264.7 cells were treated with LPS (100 ng/mL) at 37°C for 3 hours and BFA (300 ng/mL) at 37°C for 3 hours.

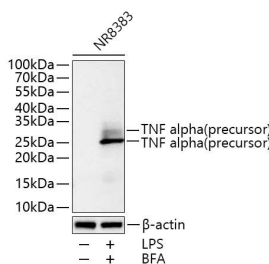
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 20 s.



Western blot analysis of lysates from NR8383 cells using TNF alpha Rabbit PolymAb® (A30091PM) at 1:5000 dilution incubated overnight at 4°C. NR8383 cells were treated with LPS (100 ng/mL) at 37°C for 6 hours and BFA (300 ng/mL) at 37°C for 3 hours.

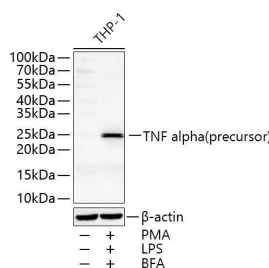
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 60 s.



Western blot analysis of lysates from THP-1 cells using TNF alpha Rabbit PolymAb® (A30091PM) at 1:5000 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 2 hours and BFA (300 ng/mL) at 37°C for 6 hours.

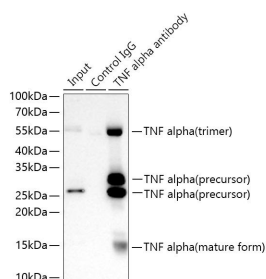
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 µg per lane.

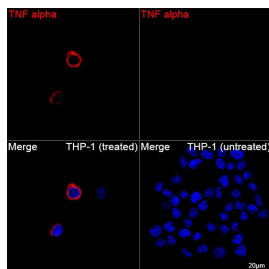
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

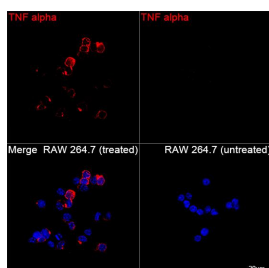
Exposure time: 90 s.



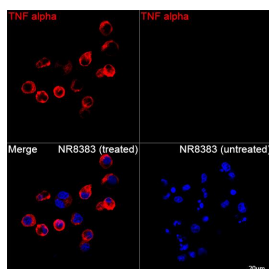
Immunoprecipitation of TNF alpha from 300 µg extracts of RAW 264.7 cells treated with LPS (100 ng/mL, 3 hours) and BFA (300 ng/mL, 3 hours) was performed using 2 µg of TNF alpha Rabbit PolymAb® (A30091PM). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using TNF alpha Rabbit PolymAb® (A30091PM) at a dilution of 1:5000.



Confocal imaging of THP-1 cells (treated with PMA, LPS and BFA) and THP-1 cells (untreated) using TNF alpha Rabbit PolymAb® (A30091PM, dilution 1:200) 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.



Confocal imaging of RAW 264.7 cells (treated with LPS and BFA) and RAW 264.7 cells (untreated) using TNF alpha Rabbit PolymAb® (A30091PM, dilution 1:200) 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.



Confocal imaging of NR8383 cells (treated with LPS and BFA) and NR8383 cells (untreated) using TNF alpha Rabbit PolymAb® (A30091PM, dilution 1:200) 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.