

A11534

Leader in Biomolecular Solutions for Life Science



## TNF- $\alpha$ Rabbit pAb

Catalog No.: A11534

213 Publications

### Basic Information

#### Observed MW

18kDa/25kDa

#### Calculated MW

26kDa

#### Category

Polyclonal Antibody

#### Applications

WB,IHC-P,IF/ICC,ELISA

#### Cross-Reactivity

Human,Mouse,Rat

### 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** 1:500 - 1:2000

**IHC-P** 1:500 - 1:1000

**IF/ICC** 1:50 - 1:100

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

### Immunogen Information

#### Gene ID

7124

#### Swiss Prot

P01375

#### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 134-233 of human TNF- $\alpha$  (NP\_000585.2).

#### 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.

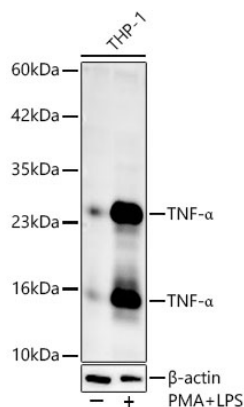
Buffer: PBS with 0.09% Sodium azide, 50% glycerol, pH7.3.

### Contact



[www.abclonal.com](http://www.abclonal.com)

## Validation Data



Western blot analysis of lysates from THP-1 cells, using TNF- $\alpha$  Rabbit pAb (A11534) at 1:1000 dilution. THP-1 cells were treated with PMA/TPA (80 nM) at 37°C for overnight and LPS (1  $\mu$ g/ml) at 37°C for 6 hours.

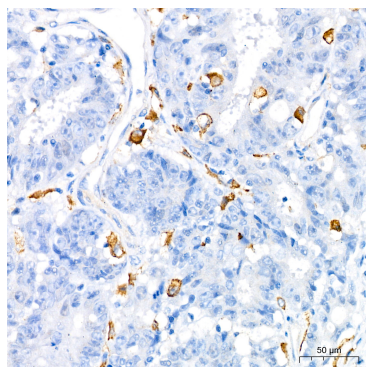
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

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

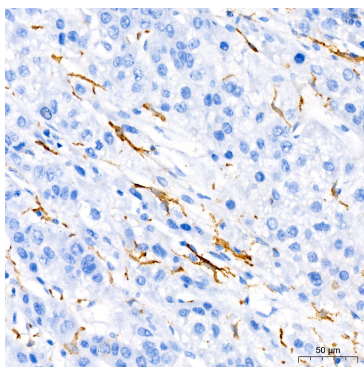
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

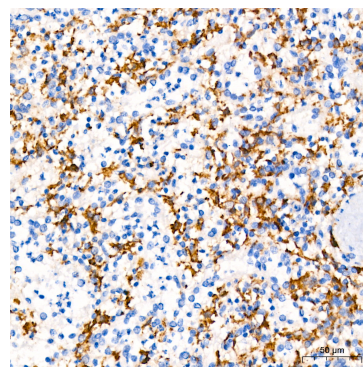
Exposure time: 60s.



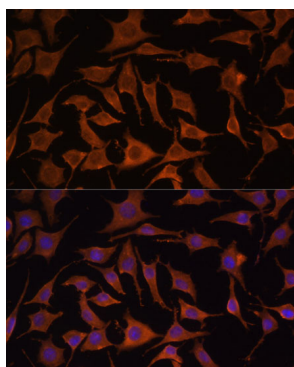
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using TNF- $\alpha$  Rabbit pAb (A11534) at dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human liver using TNF- $\alpha$  Rabbit pAb (A11534) at dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human spleen using TNF- $\alpha$  Rabbit pAb (A11534) at dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of L929 cells using TNF- $\alpha$  Rabbit pAb (A11534) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.