

# Anti-TNF alpha Rabbit pAb

Purified Rabbit Polyclonal Antibody

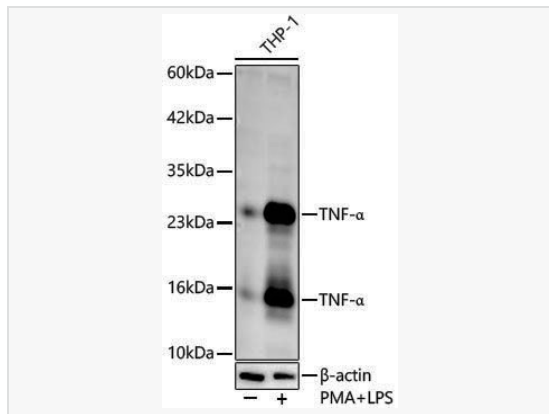
Catalog # P100768

## Product Information

|             |                                                                                                                             |
|-------------|-----------------------------------------------------------------------------------------------------------------------------|
| Application | WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA                                                                               |
| Reactivity  | Human, Mouse, Rat                                                                                                           |
| Dilution    | WB 1:500~1:2,000; IHC-P 1:500~1:1,000; IF 1:50~1:100                                                                        |
| Host        | Rabbit                                                                                                                      |
| Clonality   | Polyclonal                                                                                                                  |
| Isotype     | IgG                                                                                                                         |
| Label       | Unconjugated                                                                                                                |
| Immunogen   | Recombinant fusion protein containing a sequence corresponding to amino acids 134-233 of human TNF- $\alpha$ (NP_000585.2). |
| Format      | Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.                     |
| Storage     | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-TNF alpha Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.                 |

## Protein Information

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Synonyms      | DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha; TNF- $\alpha$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Calculated MW | Calculated MW: 26 kDa; Observed MW: 18 kDa/25 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Uniprot ID    | P01375                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene ID       | 7124                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Background    | <p>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.</p> |



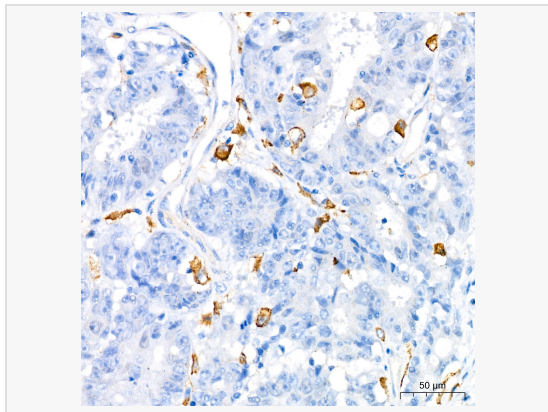
Western blot analysis of lysates from THP-1 cells, using TNF- $\alpha$  Rabbit pAb (P100768) at 1:1,000 dilution. THP-1 cells were treated by PMA/TPA (80 nM) at 37°C for overnight and LPS (1  $\mu$ g/ml) at 37°C for 6 hours.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.

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

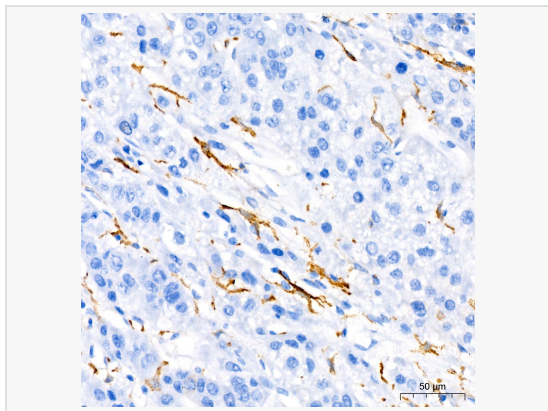
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit.

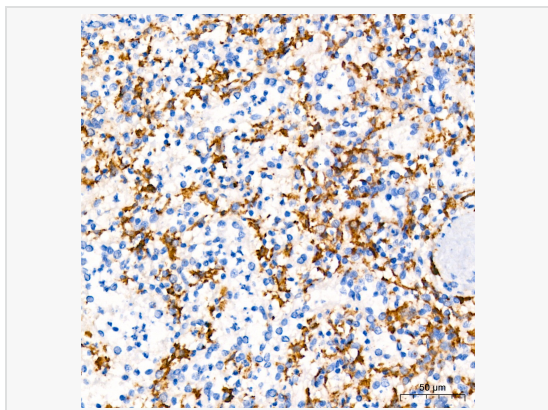
Exposure time: 60s.



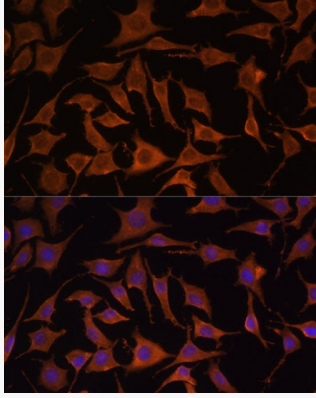
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using TNF- $\alpha$  Rabbit pAb (P100768) at dilution of 1:1000 (40 $\times$  lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human liver using TNF- $\alpha$  Rabbit pAb (P100768) at dilution of 1:1000 (40 $\times$  lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human spleen using TNF- $\alpha$  Rabbit pAb (P100768) at dilution of 1:1000 (40 $\times$  lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of L929 cells using TNF- $\alpha$  Rabbit pAb (P100768) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.