

## Anti-TNF alpha Polyclonal Antibody 2

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse
Molecular Weight:	Theoretical: 17/26 kDa.
Purification:	Protein A purified

### Applications

1. Blank control: THP-1. Primary Antibody (green line): Rabbit Anti-TNF alpha antibody (TMAB-01871)

Dilution: 1 µg/Test;

Secondary Antibody: Goat anti-rabbit IgG-FITC

Dilution: 0.5 µg/Test.

Protocol

The cells were treated with TPA (80 nM, overnight) and then treated with LPS (1 µg/mL, 18 hr/6 hr) and Brefeldin A (300 ng/mL, last 3 hr of stimulation). The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

2. Blank control: Raw264.7. Primary Antibody (green line): Rabbit Anti-TNF alpha antibody (TMAB-01871)

Dilution: 1 µg/Test;

Secondary Antibody: Goat anti-rabbit IgG-FITC

Dilution: 0.5 µg/Test.

Protocol

The cells were treated with LPS (1 µg/mL, 18 hr/6 hr) and Brefeldin A (300 ng/mL, last 3 hr of stimulation). The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

3. 4% Paraformaldehyde-fixed THP-1 (LPS treated (100 ng/ml, 16 h) and Brefeldin A treated (5 µg/ml, 4 h)) (H) cell; Antibody incubation with (TNF alpha) polyclonal Antibody, unconjugated (TMAB-01871) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green) at 37°C for 90 min, DAPI (blue) was used to stain the cell nucleus. PBS instead of the primary antibody was used as the blank control.

Verified Activity:

Dilution: 1 µg/Test;

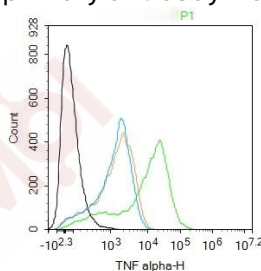
Secondary Antibody: Goat anti-rabbit IgG-FITC

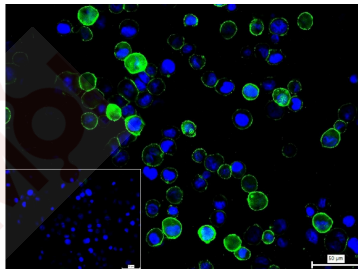
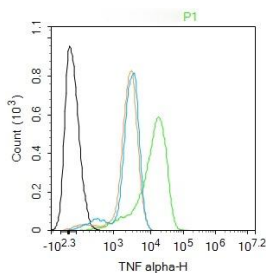
Dilution: 0.5 µg/Test.

Protocol

The cells were treated with LPS (1 µg/mL, 18 hr/6 hr) and Brefeldin A (300 ng/mL, last 3 hr of stimulation). The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

3. 4% Paraformaldehyde-fixed THP-1 (LPS treated (100 ng/ml, 16 h) and Brefeldin A treated (5 µg/ml, 4 h)) (H) cell; Antibody incubation with (TNF alpha) polyclonal Antibody, unconjugated (TMAB-01871) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green) at 37°C for 90 min, DAPI (blue) was used to stain the cell nucleus. PBS instead of the primary antibody was used as the blank control.





Application: FCM, ICC/IF

Recommended FCM=1 µg/Test; ICC/IF=1:100-500

## Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

## Antigen Details

Immunogen: Recombinant Protein: human TNF alpha protein

Antigen Species: Human

Gene ID: 7124

Uniprot ID: P01375

Synonyms: TNFA; TNF-α; TNFSF1A; TNFATNF; Cachectin; APC1 protein; TNF; TNF α; DIF; TNF-alpha; TNFSF2; TNFα; TNFalpha

Biology Area: TNF, Inflammatory mediators, TNF Superfamily, Metabolic disorders, SARS Coronavirus, TNF

## Research 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. [provided by RefSeq, Aug 2020]

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481