

# ABflo® 647 Rabbit anti-Human TNF-α mAb

Catalog No.: A22782

## Basic Information

### Observed MW

### Calculated MW

26kDa

### Category

Primary antibody

### Applications

FC (intra)

### Cross-Reactivity

Human

### CloneNo number

ARC58925

### Conjugate

ABflo® 647. Ex:648nm. Em:664nm.

## Recommended Dilutions

**FC (intra)**      5 µl per 10<sup>6</sup> cells in  
100 µl volume

## 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.

## Immunogen Information

### Gene ID

7124

### Swiss Prot

P01375

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

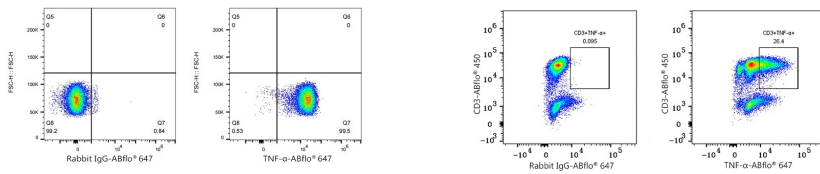
Affinity purification

### Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS containing 0.2% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Validation Data



Flow cytometry:  $1 \times 10^6$  Human PBMC were intracellularly-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5  $\mu$ l/Test, left) or ABflo® 647 Rabbit anti-Human TNF- $\alpha$  mAb (A22782, 5  $\mu$ l/Test, right).

Flow cytometry:  $1 \times 10^6$  Human PBMC (treated with 50 ng/ml PMA and 1  $\mu$ g/ml Ionomycin in the presence of 1  $\mu$ g/ml Brefeldin A for 4 hours) were surface-stained with ABflo® 450 Rabbit anti-Human CD3 mAb (A27177, 5  $\mu$ l/Test) and then intracellularly-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5  $\mu$ l/Test, left) or ABflo® 647 Rabbit anti-Human TNF- $\alpha$  mAb (A22782, 5  $\mu$ l/Test, right). Cells in the lymphocyte and monocyte gates were used for analysis.