

For Research Use Only

# TNF-alpha Polyclonal antibody

Catalog Number: 29443-1-AP



## Basic Information

Catalog Number:

29443-1-AP

Size:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM-013693

GeneID (NCBI):

21926

Full Name:

tumor necrosis factor

Observed MW:

25-26 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

mouse

Positive Controls:

WB : LPS and Brefeldin A treated RAW 264.7 cells,

## Background Information

TNF, as also known as TNF-alpha, or cachectin, is a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. It is expressed as a 26 kDa membrane bound protein and is then cleaved by TNF-alpha converting enzyme (TACE) to release the soluble 17 kDa monomer, which forms homotrimers in circulation. It is produced chiefly by activated macrophages, although it can be produced by many other cell types such as CD4+ lymphocytes, NK cells, neutrophils, mast cells, eosinophils, and neurons. 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. Mouse and human TNF-alpha share 79% amino acid sequence identity. Unlike human TNF-alpha, the mouse form is glycosylated. In mouse deficiency of this gene is associated with defects in response to bacterial infection, with defects in forming organized follicular dendritic cell networks and germinal centers, and with a lack of primary B cell follicles.

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

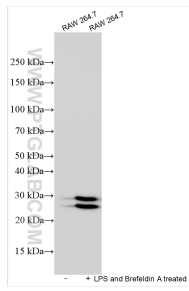
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## Selected Validation Data



LPS and Brefeldin A treated RAW264.7 cells were subjected to SDS PAGE followed by western blot with 29443-1-AP (TNF-alpha antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.