

For Research Use Only

# TNF-alpha Polyclonal antibody

Catalog Number: 26162-1-AP

9 Publications



## Basic Information

Catalog Number:

26162-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG24089

GenBank Accession Number:

NM-013693

GeneID (NCBI):

21926

Full Name:

tumor necrosis factor

Observed MW:

17 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:1000

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

mouse

Cited Species:

mouse, rat

Positive Controls:

WB: 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jinze Li	40068797	Exp Neurol	WB,IF
Jie Liu	39765279	Cell Signal	WB
Jiaxuan Li	39627688	Cell Mol Biol Lett	IHC

## Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

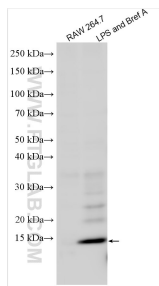
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## Selected Validation Data



Untreated, LPS and Brefeldin A treated RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 26162-1-AP (Tnf alpha antibody) at dilution of 1:500 and incubated at room temperature for 1.5 hours.