

For Research Use Only

# TNF-alpha Recombinant antibody

Catalog Number: 80258-6-RR

1 Publications



## Basic Information

Catalog Number:

80258-6-RR

Size:

100ul , Concentration: 400 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM-013693

GeneID (NCBI):

21926

UNIPROT ID:

P06804

Full Name:

tumor necrosis factor

Observed MW:

25-26 kDa

Purification Method:

Protein A purification

CloneNo.:

240702B7

Recommended Dilutions:

WB 1:2000-1:10000

IF/ICC 1:125-1:500

## Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

IF

Species Specificity:

mouse

Cited Species:

mouse

Positive Controls:

WB : PMA, LPS and Brefeldin A treated RAW 264.7 cells,

IF/ICC : 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/TNFR2. 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
Ana Crastin	39713898	Adv Healthc Mater	IF

## 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

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

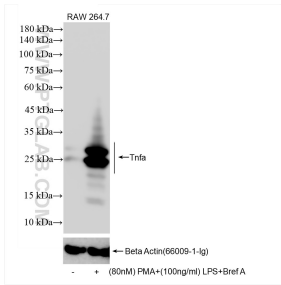
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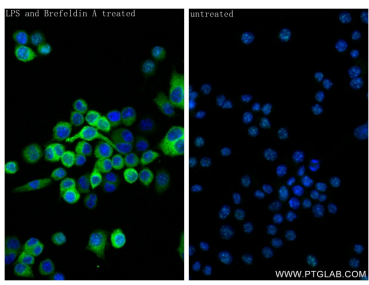
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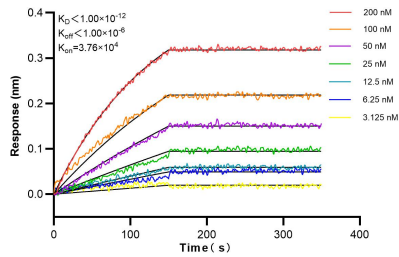
## Selected Validation Data



PMA, LPS and Brefeldin A treated RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 80258-6-RR (Tnfa antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed LPS and Brefeldin A treated RAW 264.7 cells using Tnfa antibody (80258-6-RR, Clone: 240702B7 ) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 80258-6-RR against Mouse Tnfa were performed. The affinity constant is below 1 pM.