

For Research Use Only

TNF-alpha Recombinant antibody, PBS Only

Catalog Number: 83721-7-PBS



Basic Information

Catalog Number: 83721-7-PBS	GenBank Accession Number: NM_000594.4	Purification Method: Protein A purification
Concentration: 1 mg/ml	GeneID (NCBI): 7124	CloneNo.: 240668B4
Source: Rabbit	ENSEMBL Gene ID: ENSG00000232810	
Isotype: IgG	UNIPROT ID: P01375	
	Full Name: tumor necrosis factor (TNF superfamily, member 2)	
	Calculated MW: 26 kDa	
	Observed MW: 26 kDa	

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human

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. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, ins resistance, and cancer.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

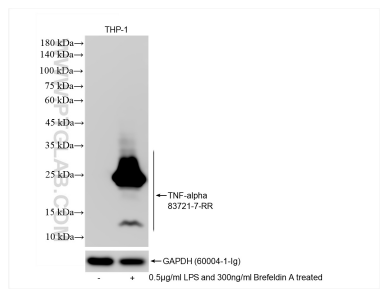
T: 4006900926

E: Proteintech-CN@ptglab.com

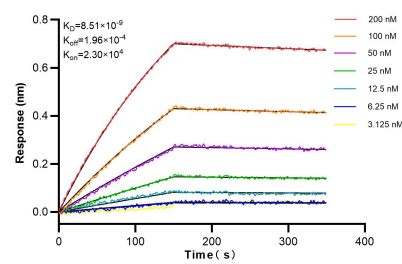
W: ptgcn.com

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Selected Validation Data



Untreated, LPS and Brefeldin A treated THP-1 cells were subjected to SDS PAGE followed by western blot with 83721-7-RR (TNF- α antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83721-7-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83721-7-RR against Human TNF- α were performed. The affinity constant is 8.51 nM.