

For Research Use Only

# Anti-Human TNF-alpha Rabbit Recombinant Antibody

Catalog Number: 98064-1-RR



## Basic Information

<b>Catalog Number:</b> 98064-1-RR	<b>GenBank Accession Number:</b> NM_000594.4	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , 1000 µg/ml	<b>GeneID (NCBI):</b> 7124	<b>CloneNo.:</b> 240668B11
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000232810	
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P01375	
	<b>Full Name:</b> tumor necrosis factor (TNF superfamily, member 2)	
	<b>Calculated MW:</b> 26 kDa	

## Applications

**Tested Applications:**  
FC (Intra)

**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/TNFR2. 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

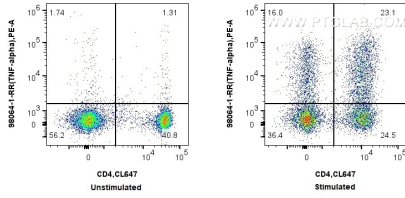
**Storage:**  
Store at 2 - 8°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.09% sodium azide, pH 7.3.

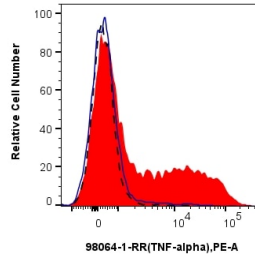
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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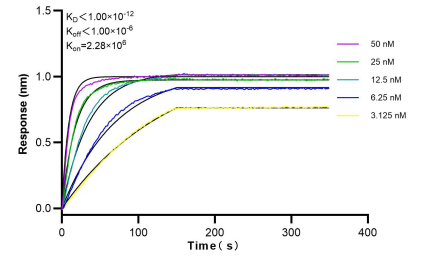
## Selected Validation Data



1x10<sup>6</sup> untreated or PMA, Ionomycin and Brefeldin A treated human PBMCs were intracellularly stained with 0.25 ug Anti-Human TNF-alpha Rabbit Recombinant Antibody (98064-1-RR, Clone:240668B11) and PE-Conjugated Goat Anti-Rabbit IgG(H+L) Cells were then stained with CoraLite® Plus 647 Anti-Human CD4. Cells were fixed with 4% PFA and permeabilized with Intracellular Staining Permeabilization Wash Buffer.



1x10<sup>6</sup> untreated(black) or PMA, Ionomycin and Brefeldin A treated(red) human PBMCs were intracellularly stained with 0.25 ug Anti-Human TNF-alpha Rabbit Recombinant Antibody (98064-1-RR, Clone:240668B11) and PE-Conjugated Goat Anti-Rabbit IgG(H+L), or 0.25 ug Isotype Control(blue). Cells were fixed with 4% PFA and permeabilized with Intracellular Staining Permeabilization Wash Buffer.



Bioluminescence resonance energy transfer (BLI) kinetic assays of 98064-1-RR against Human TNF-alpha were performed. The affinity constant is below 1 pM.