For Research Use Only

Anti-Human TNF-alpha Rabbit Recombinant Antibody

Catalog Number:98064-1-RR 1 Publications

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Basic Information

Catalog Number:
98064-1-RR

Concentration:
100ug, 1000 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_000594.4

GeneID (NCBI):
7124

ENSEMBL Gene ID:
ENSG00000232810

UNIPROT ID:
P01375

Full Name:
tumor necrosis factor (TNF superfamily, member 2)

Calculated MW:
26 kDa

Purification Method:
Protein A purification

CloneNo.:
240668B11

Recommended Dilutions:
FC (Intra): 0.25 ug per 10^6 cells in 100 μl suspension

Applications

Tested Applications:
FC (Intra)

Cited Applications:
FC

Species Specificity:
human

Positive Controls:

FC (Intra) : PMA, Ionomycin and Brefeldin A treated human PBMCs,

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/TNFBR. 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Mohammed S El-Gedamy	40358912	Biol Trace Elem Res	FC

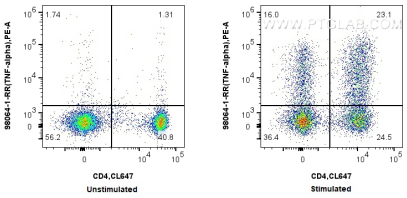
Storage

Storage:
Store at 2 - 8°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide, pH7.3

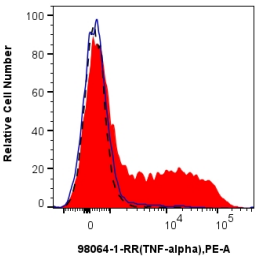
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

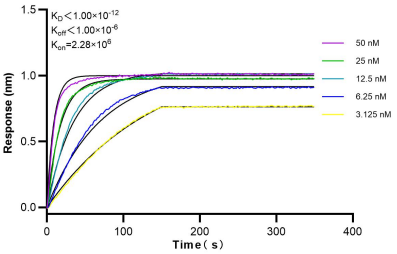
Selected Validation Data



1x10^6 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.



1x10^6 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.



Biolayer interferometry (BLI) kinetic assays of 98064-1-RR against Human TNF-alpha were performed. The affinity constant is below 1 pM.