

For Research Use Only

# CoraLite®594 Anti-Human TNF-alpha Rabbit Recombinant Antibody

Catalog Number: CL594-98064



## Basic Information

Catalog Number:

CL594-98064

Concentration:

100 tests, 5 ul/test

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

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

## 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/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 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA

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

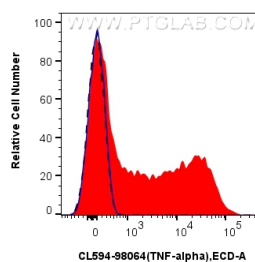
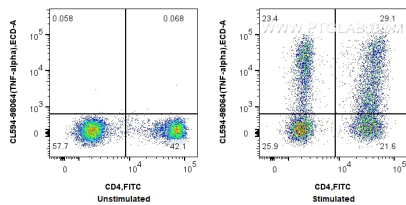
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## Selected Validation Data



$1 \times 10^6$  untreated or PMA, Ionomycin and Brefeldin A treated human PBMCs were intracellularly stained with FITC Plus Anti-Human CD4 and 5 ul CoraLite®594 Anti-Human TNF-alpha Rabbit RecAb (CL594-98064, Clone: 240668B11). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

$1 \times 10^6$  PMA, Ionomycin and Brefeldin A treated human PBMCs were intracellularly stained with 5 ul CoraLite®594 Anti-Human TNF-alpha Rabbit RecAb (CL594-98064, Clone: 240668B11) (red), or CoraLite®594 Rabbit IgG Isotype Control RecAb (CL594-98136, Clone: 240953C9) (blue).  $1 \times 10^6$  untreated human PBMCs were intracellularly stained with 5 ul CoraLite®594 Anti-Human TNF-alpha Rabbit RecAb (CL594-98064, Clone: 240668B11) (black, dashed). Cells were fixed with 4% PFA