

FcZero-rAb[®] CoraLite[®] Plus 647 Anti-Human TNF-alpha Rabbit Recombinant Antibody

Catalog Number: **CL647-FcA98064**

Basic Information

Catalog Number:

CL647-FcA98064

Concentration:

100 tests, 5 µl/test

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG0816

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): 5 µl per 10⁶ cells in a 100 µl suspension**Excitation/Emission maxima wavelengths:**

654 nm / 674 nm

Applications

Tested Applications:

FC (Intra)

Species Specificity:

human

Positive Controls:

FC (Intra) : PMA and ionomycin 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/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, insulin resistance, and cancer.

Storage

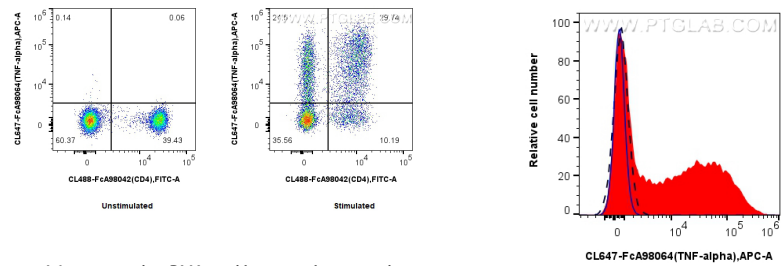
Storage:

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, pH7.3

Selected Validation Data



1x10⁶ untreated or PMA and ionomycin treated human PBMCs were intracellularly stained with FcZero-rAb® CoraLite® Plus 488 Anti-Human CD4 and 5 ul CoraLite® Plus 647 Anti-Human TNF-alpha Rabbit RecAb (CL647-FcA98064, Clone: 240668B11). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).

1x10⁶ PMA and ionomycin treated human PBMCs were intracellularly stained with 5 ul CoraLite® Plus 647 Anti-Human TNF-alpha Rabbit RecAb (CL647-FcA98064, Clone: 240668B11) (red) or FcZero-rAb® CoraLite® Plus 647 Rabbit IgG Isotype Control Recombinant Antibody (CL647-FcA98136, Clone: 240953C9) (blue). 1x10⁶ untreated human PBMCs were intracellularly stained with 5 ul CoraLite® Plus 647 Anti-Human TNF-alpha Rabbit RecAb (CL647-FcA98064,

