

For Research Use Only

# CoraLite® Plus 488-conjugated TNF Alpha Monoclonal antibody



Catalog Number: CL488-69002

## Basic Information

Catalog Number:

CL488-69002

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

HZ-1014

GenBank Accession Number:

GeneID (NCBI):

7124

ENSEMBL Gene ID:

ENSG00000232810

Full Name:

tumor necrosis factor (TNF  
superfamily, member 2)

Purification Method:

Protein G purification

CloneNo.:

11H8A5

Excitation/Emission maxima  
wavelengths:

493 nm / 522 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 -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

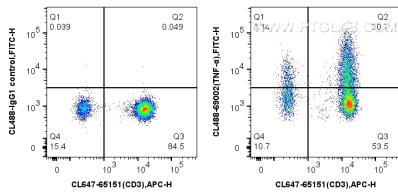
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

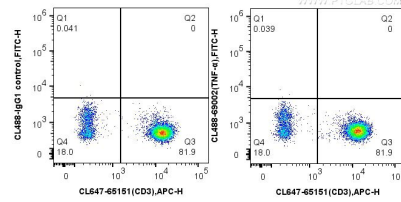
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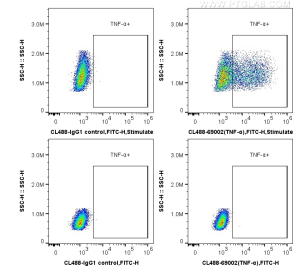
## Selected Validation Data



1X10<sup>6</sup> PMA+ionomycin-stimulated and Monensin Solution treated human PBMCs were intracellularly stained with 0.25 ug CoraLite® Plus 488 Anti-Human TNF Alpha (CL488-69002, Clone:11H8A5), and 0.25 ug Mouse IgG1 Isotype Control (CL488-66360, Clone: T1F8D3F10), and 0.25 ug CoraLite® Plus 647 Anti-Human CD3 (UCHT1) (CL647-65151, Clone: UCHT1). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1X10<sup>6</sup> human PBMCs were intracellularly stained with 0.25 ug CoraLite® Plus 488 Anti-Human TNF Alpha (CL488-69002, Clone:11H8A5), and 0.25 ug Mouse IgG1 Isotype Control (CL488-66360, Clone: T1F8D3F10), and 0.25 ug CoraLite® Plus 647 Anti-Human CD3 (UCHT1) (CL647-65151, Clone: UCHT1). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1X10<sup>6</sup> PMA, LPS, and Brefeldin A treated THP-1 cells were intracellularly stained with 0.25 ug CoraLite® Plus 488 Anti-Human TNF Alpha (CL488-69002, Clone:11H8A5) (red), or 0.25 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Intracellular Staining Permeabilization Wash Buffer.