For Research Use Only

CoraLite® Plus 488-conjugated TNF Alpha Polyclonal antibody

www.ptglab.com

Catalog Number: CL488-17590

Basic Information

Catalog Number: GenBank Accession Number:

CL488-17590 BC028148 GeneID (NCBI):

100ul , Concentration: 1000 $\mu g/ml$ by 7124 Nanodrop: ENSEMBL Gene ID: ENSG00000232810

Rabbit **UNIPROT ID:** Isotype: P01375 IgG Full Name:

Immunogen Catalog Number: tumor necrosis factor (TNF AG11433 superfamily, member 2)

> Calculated MW: 233 aa, 26 kDa Observed MW: 26 kDa

Purification Method: Protein A purification Recommended Dilutions: IF/ICC: 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

Species Specificity: human, mouse

Positive Controls:

IF/ICC: PMA, LPS and Brefeldin A treated THP-1 cells,

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.

Storage

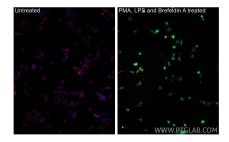
Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed PMA, LPS and Brefeldin A treated THP-1 cells using CoraLite® Plus 488 TNF Alpha antibody (CL488-17590) at dilution of 1:200, CL594-phalloidin (red).