

For Research Use Only

# CoraLite® Plus 488 Anti-Human TGF beta 1 Rabbit Recombinant Antibody

Catalog Number: CL488-98506-5



## Basic Information

Catalog Number:

CL488-98506-5

Size:

100 tests, 5 ul/test

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG0879

GenBank Accession Number:

GeneID (NCBI):

7040

UNIPROT ID:

P01137

Full Name:

transforming growth factor, beta 1

Calculated MW:

44 kDa

Purification Method:

Protein A purification

CloneNo.:

250119E2

Recommended Dilutions:

FC (Intra): 5 ul per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maximum wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

FC (Intra)

Species Specificity:

human

Positive Controls:

FC (Intra): anti-CD3/CD28 treated human PBMCs,

## Background Information

TGF Beta 1 (TGF-β1) is a pleiotropic cytokine and a member of the TGF-β superfamily (including TGF-β1, TGF-β2, and TGF-β3). It is encoded by the TGFβ1 gene and acts as a secreted protein involved in controlling cell growth, proliferation, differentiation, and apoptosis. TGF-β1 is produced by various cell types (e.g., platelets, lymphocytes, macrophages, epithelial cells, and inflammatory cells) and is secreted as a precursor requiring proteolytic activation to yield the mature, biologically active peptide. TGF-β1 plays crucial roles in immune regulation, wound healing, fibrosis, and tissue remodeling (including cardiac injury and fibrosis). It also influences cancer progression by promoting epithelial-to-mesenchymal transition (EMT) and metastasis in tumors.

## 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

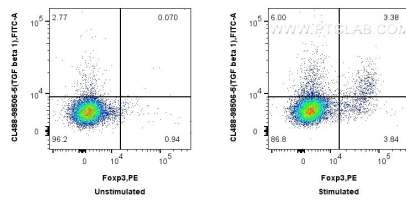
For technical support and original validation data for this product please contact:

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## Selected Validation Data



1x10<sup>6</sup> untreated or anti-CD3/CD28 treated human PBMCs were surface stained with 5 ul CoraLite® Plus 488 Anti-Human TGF beta 1 Rabbit RecAb (CL488-98506-5, Clone: 250119E2). Cells were then fixed and stained with Anti-Human Foxp3. CD4<sup>+</sup> cells were pre-gated for analysis.