

For Research Use Only

# PE-conjugated TGF Beta 1 Recombinant monoclonal antibody

Catalog Number: PE-81746-2

Featured Product



## Basic Information

Catalog Number:

PE-81746-2

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13591

GenBank Accession Number:

BC000125

GeneID (NCBI):

7040

UNIPROT ID:

P01137

Full Name:

transforming growth factor, beta 1

Calculated MW:

44 kDa

Observed MW:

44 kDa

Purification Method:

Protein A purification

CloneNo.:

230544B7

Recommended Dilutions:

IF/ICC: 1:50-1:500

FC (Intra): 0.2 ug per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

496 nm, 565 nm / 578 nm

## Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse

Positive Controls:

IF/ICC : HEK-293 cells,

FC (Intra) : PHA treated human PBMCs, HEK-293 cells

## Background Information

TGF Beta 1 (TGF- $\beta$  1) is a pleiotropic cytokine and a member of the TGF- $\beta$  superfamily (including TGF- $\beta$  1, TGF- $\beta$  2, and TGF- $\beta$  3). It is encoded by the TGFB1 gene and acts as a secreted protein involved in controlling cell growth, proliferation, differentiation, and apoptosis. TGF- $\beta$  1 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- $\beta$  1 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:

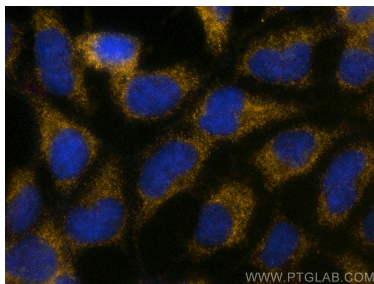
T: 4006900926

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

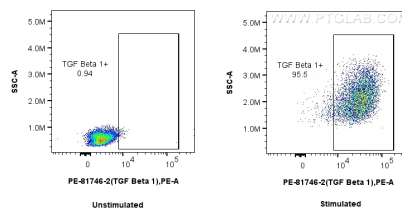
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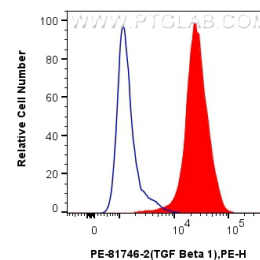
## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using PE TGF Beta 1 antibody (PE-81746-2, Clone: 230544B7 ) at dilution of 1:200.



1x10<sup>6</sup> untreated or PHA-treated human PBMCs were intracellularly stained with 0.2 ug PE-conjugated TGF Beta 1 Recombinant antibody (PE-81746-2, Clone: 230544B7). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



1x10<sup>6</sup> HEK-293 cells were intracellularly stained with 0.1 ug PE TGF Beta 1 Recombinant Antibody (PE-81746-2, Clone: 230544B7) (red) or PE Rabbit IgG Isotype Control RecAb (PE-98136, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.