

For Research Use Only

# CoraLite® Plus 647-conjugated TGF Beta 1 Recombinant antibody

Catalog Number:CL647-81746-2



## Basic Information

### Catalog Number:

CL647-81746-2

### Size:

100ul , Concentration: 1000 ug/ml by Nanodrop;

### 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:

FC (Intra): 0.4 ug per 10<sup>6</sup> cells in a 100 µl suspension

### Excitation/Emission maxima wavelengths:

654 nm / 674 nm

## Applications

### Tested Applications:

FC (Intra)

### Species Specificity:

human, mouse

### Positive Controls:

FC (Intra) : HEK-293 cells,

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

### Storage Buffer:

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

Aliquoting is unnecessary for -20°C storage

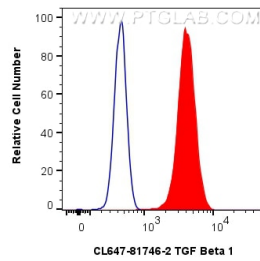
For technical support and original validation data for this product please contact:

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## Selected Validation Data



1x10<sup>6</sup> HEK-293 cells were intracellularly stained with 0.4 ug Coralite® Plus 647 TGF Beta 1 Recombinant Antibody (CL647-81746-2, Clone:230544B7)(red), or 0.4 ug Coralite® Plus 647 Rabbit IgG Isotype Control RecAb (CL647-98136, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).