

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

Concentration:

1000 ug/ml

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

TGFB, also named as LAP and TGFB1, is a multifunctional peptide that controls proliferation, differentiation, and other functions in many cell types. TGFB acts synergistically with TGFA in inducing transformation. It also acts as a negative autocrine growth factor. Dysregulation of TGFB activation and signaling may result in apoptosis. Many cells synthesize TGFB and almost all of them have specific receptors for it. TGFB positively and negatively regulates many other growth factors. It plays an important role in bone remodeling as it is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts. It is highly expressed in bone. Mutation of TGFB are the cause of Camurati-Engelmann disease (CED) which known as progressive diaphyseal dysplasia 1 (DPD1). Full-length, inactive 44 kD TGFB1 is cleaved into mature TGFB1 (13 kD). TGFB1 also homodimerizes and heterodimerizes with TGFB2, so there is potential for multiple different band sizes in WB (12, 25, 45 to 65 kDa).

## 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:

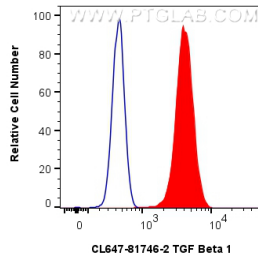
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**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## 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).