

For Research Use Only

# CoraLite® Plus 750-conjugated TGFB1 Recombinant antibody

Catalog Number:CL750-81746-2



## Basic Information

<b>Catalog Number:</b> CL750-81746-2	<b>GenBank Accession Number:</b> BC000125	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7040	<b>CloneNo.:</b> 230544B7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P01137	<b>Recommended Dilutions:</b> WB 1:1000-1:4000
<b>Isotype:</b> IgG	<b>Full Name:</b> transforming growth factor, beta 1	<b>Excitation/Emission maxima wavelengths:</b> 755 nm / 780 nm
<b>Immunogen Catalog Number:</b> AG13591	<b>Calculated MW:</b> 44 kDa	
	<b>Observed MW:</b> 44 kDa	

## Applications

<b>Tested Applications:</b> WB, FC (Intra)	<b>Positive Controls:</b> WB : 4T1 cells, RAW 264.7 cells
<b>Species Specificity:</b> human, mouse	

## 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).

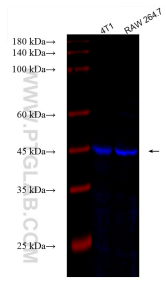
## Storage

**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, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

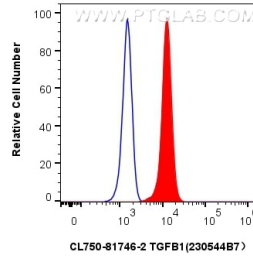
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL750-81746-2 (TGFB1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



$1 \times 10^6$  HEK-293 cells were intracellularly stained with 0.4  $\mu$ g CoraLite® Plus 750-conjugated TGFB1 Recombinant antibody (CL750-81746-2, Clone:230544B7)(red), or 0.4  $\mu$ g Isotype Control (CL750-30000) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).