

For Research Use Only

CoraLite® Plus 750-conjugated TGFB1 Recombinant antibody



Catalog Number: CL750-81746-2

Basic Information

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

Applications

Tested Applications: WB	Positive Controls: WB : 4T1 cells, RAW 264.7 cells
Species Specificity: 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:

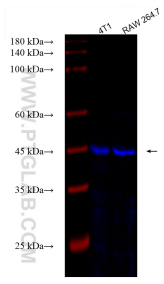
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL750-81746-2 (TGFβ1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.