

For Research Use Only

PE-conjugated TGF Beta 1 Recombinant antibody

Catalog Number: PE-81746-2



Basic Information

Catalog Number: PE-81746-2	GenBank Accession Number: BC000125	Purification Method: Protein A purification
Size: 100ul , Concentration: 200 ug/ml by Nanodrop;	GeneID (NCBI): 7040	CloneNo.: 230544B7
Source: Rabbit	UNIPROT ID: P01137	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG	Full Name: transforming growth factor, beta 1	Excitation/Emission maxima wavelengths: 496 nm, 565 nm / 578 nm
Immunogen Catalog Number: AG13591	Calculated MW: 44 kDa	
	Observed MW: 44 kDa	

Applications

Tested Applications: IF/ICC, FC (Intra)	Positive Controls: IF/ICC : HEK-293 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).

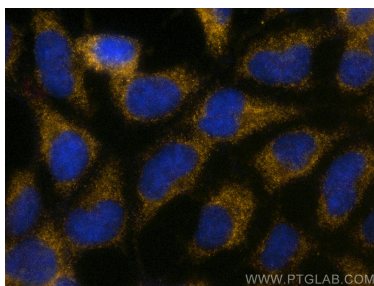
Storage

Storage:
Store at 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.

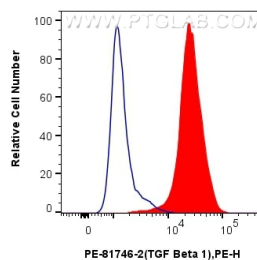
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



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.



1x10⁶ HEK-293 cells were intracellularly stained with 5 ul PE TGF Beta 1 Recombinant Antibody (PE-81746-2, Clone:230544B7)(red), or 5 ul PE Rabbit IgG Isotype Control RecAb (PE-98136, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).