

For Research Use Only

# CoraLite® Plus 555-conjugated TGF Beta 1 Recombinant monoclonal antibody

Catalog Number:**CL555-81746-2**

Featured Product



## Basic Information

Catalog Number:	CL555-81746-2	GenBank Accession Number:	BC000125	Purification Method:	Protein A purification
Size:	100ul , Concentration: 1000 ug/ml by Nanodrop;	GenID (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:	554 nm / 570 nm
Immunogen Catalog Number:	AG13591	Calculated MW:	44 kDa		
		Observed MW:	44 kDa		

## Applications

Tested Applications:	Positive Controls:
IF/ICC	IF/ICC : HEK-293 cells,
Species Specificity:	

human, mouse, rat

## Background Information

TGF Beta 1 (TGF- $\beta$ 1) is a pleiotropic cytokine and a member of the TGF- $\beta$  superfamily (including TGF- $\beta$ 1, TGF- $\beta$ 2, and TGF- $\beta$ 3). It is encoded by the TGFB1 gene and acts as a secreted protein involved in controlling cell growth, proliferation, differentiation, and apoptosis. TGF- $\beta$ 1 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- $\beta$ 1 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

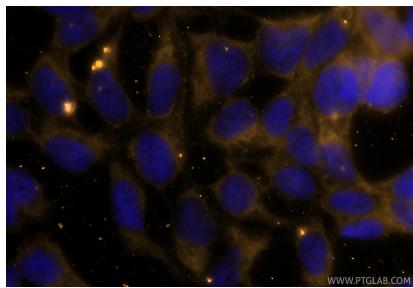
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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

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

## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol)  
fixed HEK-293 cells using CoraLite® Plus 555 TGF  
Beta 1 antibody (CL555-81746-2, Clone: 230544B7 )  
at dilution of 1:200.