

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

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:

IF/ICC: 1:50-1:500

Excitation/Emission maxima wavelengths:

554 nm / 570 nm

Applications

Tested Applications:

IF/ICC

Species Specificity:

human, mouse, rat

Positive Controls:

IF/ICC : HEK-293 cells,

Background Information

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

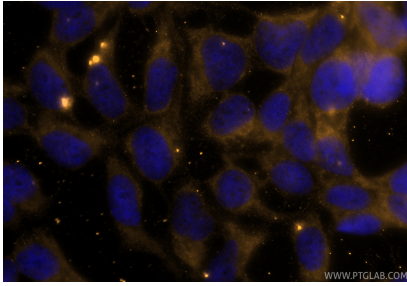
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



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.