

For Research Use Only

TGF beta 1 Polyclonal antibody

Catalog Number: 26155-1-AP

3 Publications



Basic Information

Catalog Number:

26155-1-AP

Concentration:

800 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG24078

GenBank Accession Number:

NM-011577

GeneID (NCBI):

21803

UNIPROT ID:

P01137

Full Name:

transforming growth factor, beta 1

Observed MW:

44 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : L-929 cells, NIH/3T3 cells, RAW 264.7 cells, C6

IF/ICC : NIH/3T3 cells,

Background Information

TGF beta 1 is a potent cytokine capable of regulating multiple cellular processes including cell proliferation, differentiation, wound healing, and immune response. TGF beta 1 is identified in various immune cells and its activity varies in different cell types or cells at different developmental stages¹. TGF beta 1 functions by binding to the TGF β 1 receptors, which subsequently activate the canonical SMAD pathway or non-canonical signaling cascades, such as the mitogen-activated protein kinase (MAPK) pathway, phosphatidylinositol-3 kinase and AKT (PI3K-AKT), and Rho family of GTPases (Rho GTPase). What is special about TGF beta 1 is its context-dependent nature that is particularly true for tumors. Full-length, inactive 44 kD TGF β 1 is cleaved into mature TGF β 1 (13 kD). TGF β 1 also homodimerizes and heterodimerizes with TGF β 2, so there is potential for multiple different band sizes in WB (12, 25, 45 to 65 kDa).

Notable Publications

Author	Pubmed ID	Journal	Application
Liming Zheng	39136964	Mol Pharm	IHC
Licheng Zhu	39053421	Biomed Pharmacother	WB
Zucheng Luo	38942343	Cell Signal	WB,IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

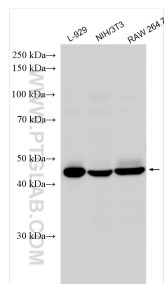
T: 4006900926

E: Proteintech-CN@ptglab.com

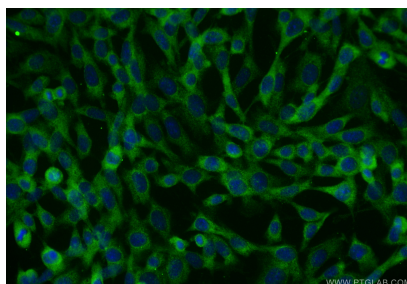
W: ptgcn.com

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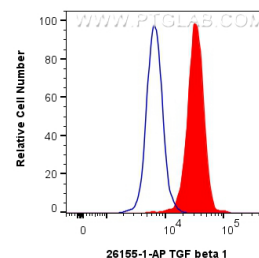
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 26155-1-AP (Tgfb1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using TGF beta 1 antibody (26155-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10⁶ NIH/3T3 cells were intracellularly stained with 0.25 ug TGF beta 1 Polyclonal antibody (26155-1-AP) and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).