

For Research Use Only

# TGFBR1 Polyclonal antibody

Catalog Number: 30117-1-AP

12 Publications



## Basic Information

<b>Catalog Number:</b> 30117-1-AP	<b>GenBank Accession Number:</b> NM_004612	<b>Purification Method:</b> Antigen affinity purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 7046	<b>Recommended Dilutions:</b> WB: 1:500-1:3000
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P36897	IHC: 1:200-1:800
<b>Immunogen Catalog Number:</b> AG31620	<b>Full Name:</b> transforming growth factor, beta receptor 1	IF-P: 1:50-1:500
	<b>Calculated MW:</b> 56KD	
	<b>Observed MW:</b> 56 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, ELISA	<b>Positive Controls:</b> WB : A549 cells, MDA-MB-231 cells, NCI-H1299 cells, U-87 MG cells, mouse liver tissue, rat liver tissue
<b>Cited Applications:</b> WB, IF, IP	<b>IHC :</b> human lung cancer tissue,
<b>Species Specificity:</b> human, mouse, rat	<b>IF-P :</b> mouse ovary tissue,
<b>Cited Species:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

TGFBR1 (TGF-beta receptor type-1) encodes a serine/threonine kinase receptor for transforming growth factor-beta. TGFBR1, TGFBR2 and TGFBR3 signals are transduced from the cell surface to the cytoplasm and regulate lots of physiological and pathological processes including cell cycle arrest in epithelial and hematopoietic cells, control of mesenchymal cell proliferation and differentiation, wound healing, extracellular matrix production, immunosuppression and carcinogenesis. Mutations in both TGFBR2 and TGFBR1 were associated with early onset and aggressive thoracic aortic disease with MFS-like skeletal features, but also hypertelorism, craniosynostosis, developmental delay, cleft palate and bifid uvula, congenital heart disease and aneurysms, and dissections throughout the arterial tree with marked arterial tortuosity (PMID: 15731757, PMID: 27879313).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yujiao Xu	40400126	Autophagy	WB
Peng Li	40382656	Cell Commun Signal	WB,IP
Zhengchao Wang	40159624	J Cell Mol Med	IF

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

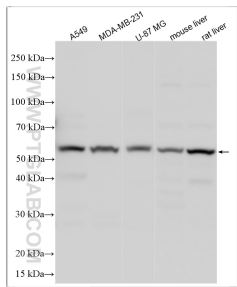
T: 4006900926

E: Proteintech-CN@ptglab.com

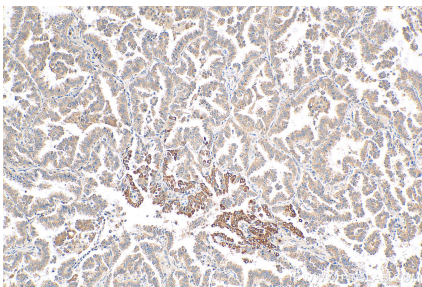
W: ptgcn.com

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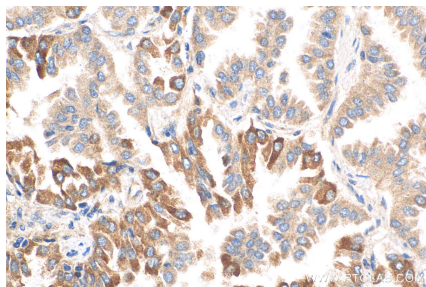
## Selected Validation Data



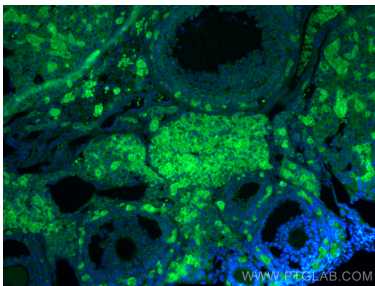
Various lysates were subjected to SDS PAGE followed by western blot with 30117-1-AP (TGFBR1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 30117-1-AP (TGFBR1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 30117-1-AP (TGFBR1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse ovary tissue using TGFBR1 antibody (30117-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).