

For Research Use Only

TGFBR1 Polyclonal antibody

Catalog Number: 30117-1-AP

7 Publications



Basic Information

Catalog Number: 30117-1-AP	GenBank Accession Number: NM_004612	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 3000 µg/ml by Nanodrop;	GeneID (NCBI): 7046	Recommended Dilutions: WB 1:500-1:3000 IHC 1:200-1:800
Source: Rabbit	UNIPROT ID: P36897	
Isotype: IgG	Full Name: transforming growth factor, beta receptor 1	
Immunogen Catalog Number: AG31620	Calculated MW: 56KD	
	Observed MW: 56 kDa	

Applications

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

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
Weidong Wu	39612365	Epigenetics	WB
Jinda Hu	39364054	Front Pharmacol	WB
Zhijie Xu	39033109	J Nanobiotechnology	WB

Storage

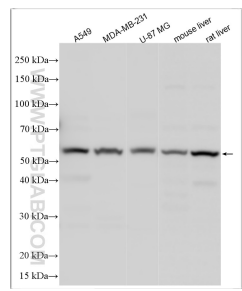
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

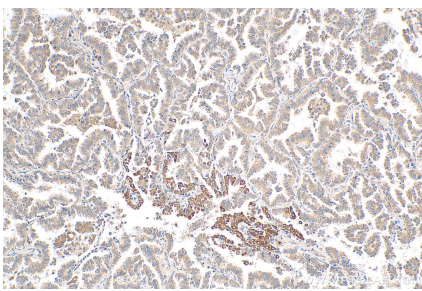
For technical support and original validation data for this product please contact:
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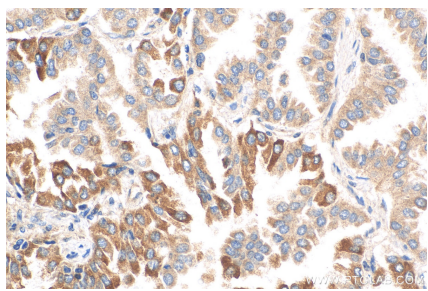
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30117-1-AP (TGFR1 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 (TGFR1 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 (TGFR1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).