## For Research Use Only

## TGFBR1 Recombinant antibody

Catalog Number:84453-1-RR



**Purification Method:** 

Protein A purfication

WB: NCI-H1299 cells, MDA-MB-231 cells, A549 cells

IHC: human lung cancer tissue, human placenta tissue

CloneNo.:

Positive Controls:

**Basic Information** 

Catalog Number: GenBank Accession Number:

84453-1-RR NM 004612 GeneID (NCBI):

100ul , Concentration: 1000  $\mu g/ml$  by 7046 241441A11 Nanodrop: **UNIPROT ID:** Recommended Dilutions: P36897 WB 1:1000-1:4000 Rabbit IHC 1:200-1:800

Full Name:

Isotype: transforming growth factor, beta

IgG receptor 1 Immunogen Catalog Number: Calculated MW:

AG31620 56KD

> Observed MW: 56 kDa

**Applications** 

**Tested Applications:** WB, IHC, ELISA

Species Specificity:

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. TGFB1, TGFB2 and TGFB3 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).

Storage

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

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

Aliquoting is unnecessary for -20°C storage

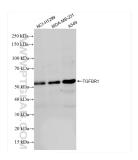
\*\*\* 20ul sizes contain 0.1% BSA

in USA), or 1(312) 455-8498 (outside USA)

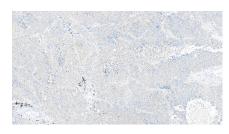
W: ptglab.com

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

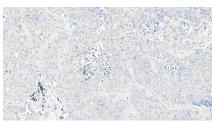
## **Selected Validation Data**



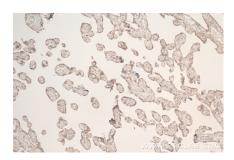
Various lysates were subjected to SDS PAGE followed by western blot with 84453-1-RR (TGFBR1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



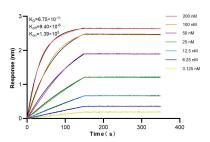
Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 84453-1-RR (TGFBR1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 84453-1-RR (TGFBR1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human placenta tissue slide using 84453-1-RR (TGFBR1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLL) kinetic assays of 84453-1-RR against Human TGFBR1 were performed. The affinity constant is 67.5 pM.