

---

**Product Name: TGF $\beta$  RII (phospho Ser225) Rabbit Polyclonal Antibody****Catalog #: APRab05549**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Phosphorylated
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
<b>Molecular Weight</b>	75kDa

**Antigen Information**

<b>Gene Name</b>	TGFBR2
<b>Alternative Names</b>	TGFBR2; TGF-beta receptor type-2; TGFR-2; TGF-beta type II receptor; Transforming growth factor-beta receptor type II; TGF-beta receptor type II; TbetaR-II
<b>Gene ID</b>	7048.0
<b>SwissProt ID</b>	P37173
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human TGF beta Receptor II around the phosphorylation site of Ser225/250. AA range:191-240

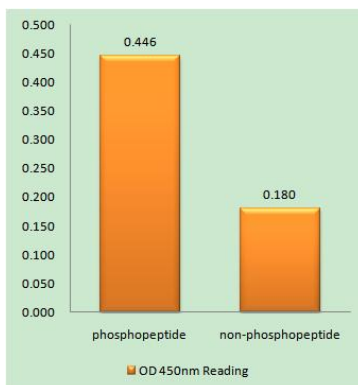
**Background**

This gene encodes a member of the Ser/Thr protein kinase family and the TGF $\beta$  receptor subfamily. The encoded protein is a transmembrane protein that has a protein kinase domain, forms a heterodimeric complex with another receptor protein, and binds TGF- $\beta$ . This receptor/ligand complex phosphorylates proteins, which then enter the nucleus and regulate the transcription of a subset of genes related to cell proliferation. Mutations in this gene have been associated with Marfan Syndrome, Loeys-Deitz Aortic Aneurysm Syndrome, and the development of various types of tumors. Alternatively spliced transcript variants encoding different isoforms have been characterized. [provided by RefSeq, Jul 2008],catalytic activity:ATP + [receptor-protein] = ADP + [receptor-protein] phosphate.,cofactor:Magnesium or manganese.,disease:Defects in TGFBR2 are a cause of esophageal cancer [MIM:133239].,disease:Defects in TGFBR2 are the cause of aortic aneurysm familial thoracic type 3 (AAT3) [MIM:610380]. Aneurysms and dissections of the aorta usually result from degenerative changes in the aortic wall.

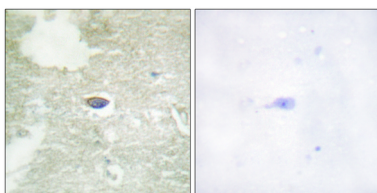
## Research Area

MAPK\_ERK\_Growth;MAPK\_G\_Protein;Cytokine-cytokine receptor interaction;Endocytosis;TGF-beta;Adherens\_Junction;Pathways in cancer;Colorectal cancer;Pancreatic cancer;Chronic myeloid leukemia;

## Image Data



Enzyme-Linked Immunosorbent Assay ( Phospho-ELISA ) for Immunogen Phosphopeptide ( Phospho-left ) and Non-Phosphopeptide ( Phospho-right ) , using TGF beta Receptor II ( Phospho-Ser225/250 ) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using TGF beta Receptor II ( Phospho-Ser225/250 ) Antibody. The picture on the right is blocked with the phospho peptide.