

For Research Use Only

# TGFR3-Specific Polyclonal antibody

Catalog Number:20000-1-AP

Featured Product

7 Publications



## Basic Information

### Catalog Number:

20000-1-AP

### Size:

150ul , Concentration: 500 ug/ml by Nanodrop and 293 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_003243

### GeneID (NCBI):

7049

### UNIPROT ID:

Q03167

### Full Name:

transforming growth factor, beta receptor III

### Calculated MW:

93 kDa

### Observed MW:

110-150 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

## Applications

### Tested Applications:

WB, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human

### Cited Species:

human, mouse, goat

### Positive Controls:

WB : A549 cells, A431 cells

## Background Information

Transforming growth factor  $\beta$  (TGF- $\beta$ ) is a multifunctional cytokine that plays important roles in normal development and homeostasis (PMID: 8530052). There are three TGF- $\beta$  forms: TGF- $\beta$ 1, TGF- $\beta$ 2, and TGF- $\beta$ 3. The diverse effects of TGF- $\beta$  are mediated by the TGF- $\beta$  receptors and cell surface-binding proteins. Three TGF- $\beta$  receptors exist: TGFBR1, TGFBR2, TGFBR3 (PMID: 8530052; 30184463). TGFBR3, also known as betaglycan, is a transmembrane proteoglycan that often functions as a co-receptor with other TGF- $\beta$  receptor superfamily members. In addition to the transmembrane form, the extracellular domain of TGFBR3 can be cleaved to a soluble form (sTGFBR3), which may serve as an antagonist of TGF- $\beta$  to inhibit TGF- $\beta$  signaling (PMID: 30184463). TGFBR3 has a larger apparent molecular weight than the calculated molecular weight, due to extensive carbohydrate modifications (PMID: 1556106). This antibody is specific to TGFBR3.

## Notable Publications

Author	Pubmed ID	Journal	Application
Bingyu Xie	36179941	Mol Cell Endocrinol	WB
Wenxiang Zhu	34656907	Int Immunopharmacol	
Li-Yuan Yu-Lee	29514796	Cancer Res	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

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

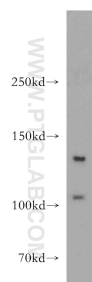
For technical support and original validation data for this product please contact:

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## Selected Validation Data



A549 cells were subjected to SDS PAGE followed by western blot with 20000-1-AP (TGFB $\beta$ 3-Specific antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.