



## Rabbit anti TGFBR1(pS165) Polyclonal Antibody

Alternative Name(s): Transforming Growth Factor beta Receptor 1 (TGFbR1)

### Order Information

- **Description:** TGFBR1(pS165)
- **Catalogue:** 620-910
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** hu, Ms, Rt,

### **ANTIGEN PREPARATION**

A synthetic peptide derived from internal sequence (-EEDP-\*S-LDRP) with a phosphorylation site at Serine 165 of mouse TGFbeta receptor type-1. This sequence is also identical within human, rat, mouse, chicken, bovine and dog species.

### **BACKGROUND**

Transforming growth factor  $\beta$  isoforms (TGF- $\beta$ 1, 2, 3) play vital roles in regulating cellular growth and differentiation, and they signal through a highly restricted subset of receptors known as TGF- $\beta$  type I receptor (T $\beta$ R-I) and TGF- $\beta$  type II receptor (T $\beta$ R-II). Expression of T beta R-I is more ubiquitous than that of T beta R-II. There was no staining of T beta R-II in the central nervous system, while intense T beta R-I staining was found specifically in nervous tissues. Expression of T beta R-I and T beta R-II was mostly coincident with that of their ligands, suggesting that TGF-beta s act as multiple mediators during organogenesis. TGF- $\beta$  binds with high affinity to its receptor, a transmembrane protein with a cytoplasmic serine/threonine kinase domain, to form a dynamic dimer with phosphorylation in the cytoplasmic Ser/Thr residuals which cause its kinase activity and association with another TGF beta-binding protein, the type I receptor, to signal growth inhibition and early gene responses.

### **PURIFICATION**

The Rabbit IgG is purified by site-modified Epitope Affinity Purification.

### **FORMULATION**

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes human protein. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1  $\mu$ g/ml
- ELISA: 0.01-0.1  $\mu$ g/ml
- Immunoprecipitation: 2-5  $\mu$ g/ml
- IHC: 2-10  $\mu$ g/ml
- Flow cytometry: Not tested
- Molecular Weight: 55.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

### **FOR RESEARCH USE ONLY.**

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA  
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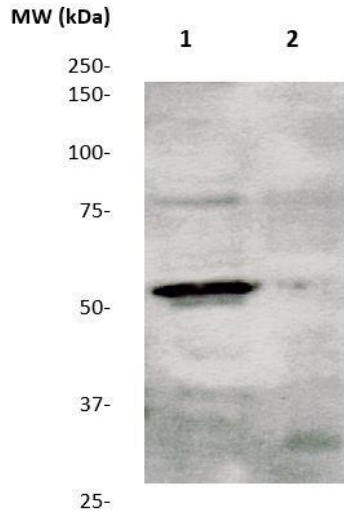


\*Optimal dilutions should be determined by researchers for the specific applications.

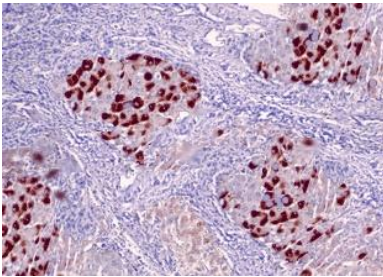
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## DATA ATTACHMENTS



Western Blot: The cell lysate derived from TGF beta peptide (Lane #1: 10 ng/ml for 30 minutes, Lane #2: no treated.) stimulated MCF-7 cell lysate was immunoprobed by Rabbit anti-TGFbR1 (Cat#620-910) at 1:500. An immunoreactive band is observed around ~55 kDa.



Immunohistochemistry: Formalin-fixed, paraffin-embedded human breast carcinoma tissue stained with Rabbit anti-TGFBR1(pSer165) antibody (Cat. #620-910) at 1:50 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

## REFERENCES

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