



Rabbit anti TGFBR1(Phospho) Polyclonal Antibody

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

Order Information

- **Description:** TGFBR1(Phospho)
- **Catalogue:** 620-900
- **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 (-TS*GS*GS*G-) with a phosphorylation sites at Serine 187, 189 and 191 of mouse TGFbeta receptor type-1. This sequence is also identical within human, rat, mouse, chicken and other sp

BACKGROUND

Transforming growth factor β isoforms (TGF- β 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- β type I receptor (T β R-I) and TGF- β type II receptor (T β 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- β 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 Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes multiple phosphorylation sites of TGFBR1(Phospho) protein with the epitope S-G-S-G-S-G-LP.

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

FOR RESEARCH USE ONLY.

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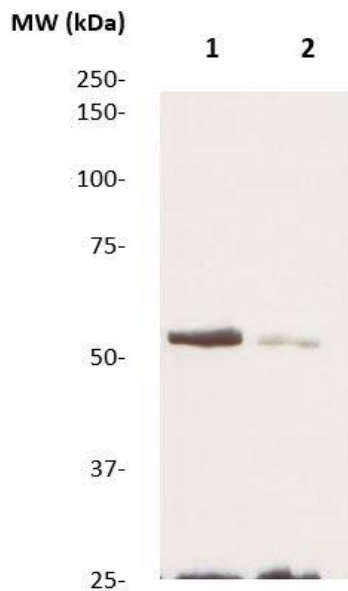


*Optimal dilutions should be determined by researchers for the specific applications.

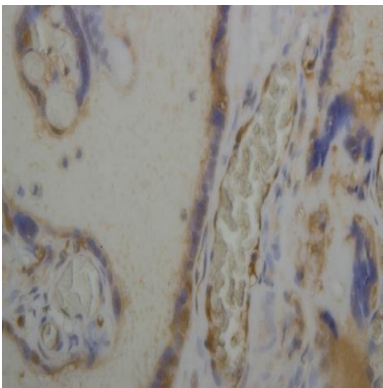
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DATA ATTACHMENTS



Western Blot: The cell lysate derived from TGF beta peptide (10 ng/ml for 30 minutes) stimulated MCF-7 cell lysate was immunoprobed by Rabbit anti-TGF β R1 (Cat#620-900) at 1:1000. A major immunoreactive band is observed around ~55 kDa.



Immunohistochemistry: Human placenta (FFPE) stained with Rabbit anti-TGF β R1 (pS187, 189, 191) (Cat# 620-900) at 1:200 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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