Rabbit anti TGF beta Receptor II Polyclonal Antibody

Alternative Name(s): TGFBR2; Transforming Growth Factor beta Receptor II

Order Information

- **Description:** TGF beta Receptor II
- **Catalogue:** 500-11244
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu

ANTIGEN PREPARATION

A synthetic peptide derived from internal sequence (90-160aa) of human TGFbeta receptor type-2. This sequence is also identical within human, rat, mouse, chicken, bovine species.

BACKGROUND

Transforming growth factor β isoforms (TGF-β1, 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 (TβR-I) and TGF-β type II receptor (TβR-II). TGF-β's specificity for TβR-I has been proposed to arise from its pre-helix extension, a five-residue loop that binds in the cleft between TGF-β and TβR-II. TGF-β binds with high affinity to the type II receptor, a transmembrane protein with a cytoplasmic serine/threonine kinase domain, which requires both its kinase activity and association with another TGF betabinding protein, the type I receptor, to signal growth inhibition and early gene responses. Receptors I and II associate as interdependent components of a heteromeric complex: receptor I requires receptor II to bind TGF beta, and receptor II requires receptor I to signal. Mutations in TβR-I and TβR-II gene have been associated with Loeys-Dietz aortic aneurysm syndrome (LDAS).

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification

FORMULATION

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

SPECIFICITY

This antibody reacts with human TGF-beta Receptor II. 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 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 65.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

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

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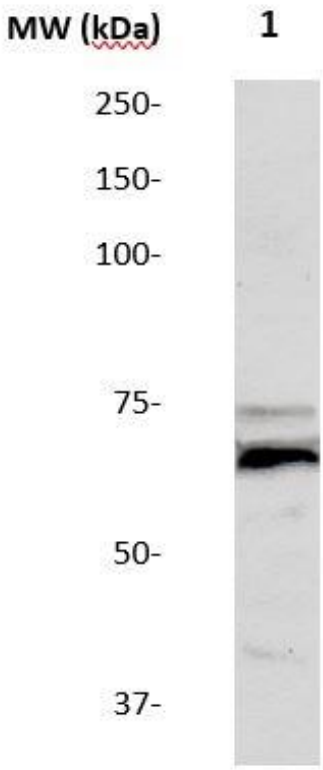
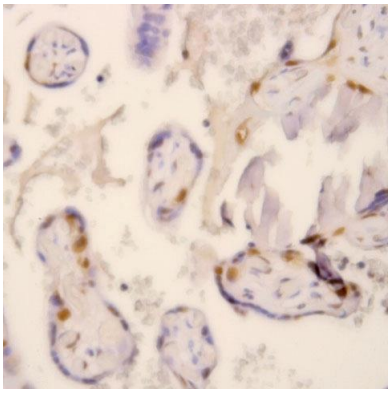
DATA ATTACHMENTS



Western Blot: The cell lysate derived from HEK293 transfected with full length of TGF□R1 was immunoprobed by Rabbit anti-TGF□R2(Cat#500-11244) at 1:500. An immunoreactive band is observed around ~65 kDa



Immunohistochemistry: Human Placenta (FFPE) stained with Rabbit anti-TGFbR2 (Cat# 500-11244) 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

Wrana,J.L., et al. TGF beta signals through a heteromeric protein kinase receptor Complex. Cell 71 (6), 1003-1014 (1992)

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