

# Anti-TGF beta Receptor I Antibody

## ER1917-65



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IHC-P, IF-Tissue
<b>Molecular Wt:</b>	55 kDa

**Description:** Transforming growth factor beta receptor I (activin A receptor type II-like kinase, 53kDa) is a membrane-bound TGF beta receptor protein of the TGF-beta receptor family for the TGF beta superfamily of signaling ligands. TGFBR1 is its human gene. The protein encoded by this gene forms a heteromeric complex with type II TGF- $\beta$  receptors when bound to TGF- $\beta$ , transducing the TGF- $\beta$  signal from the cell surface to the cytoplasm. The encoded protein is a serine/threonine protein kinase. Mutations in this gene have been associated with Loeys-Dietz aortic aneurysm syndrome (LDS, LDAS).

**Immunogen:** KLH conjugated synthetic peptide derived from human TGF beta Receptor I: 301-400/501

**Subcellular location:** Cell membrane, Cell junction, tight junction, Cell surface, Membrane raft.

**Database links:** SwissProt: P36897 Human | Q64729 Mouse | P80204 Rat

### Recommended Dilutions:

<b>WB</b>	1:500-1:2,000
<b>IHC-P</b>	1:100-1:500
<b>IF-Tissue</b>	1:100-1:500

**Storage Buffer:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

**Storage Instruction:** Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Purity:** Protein A affinity purified.

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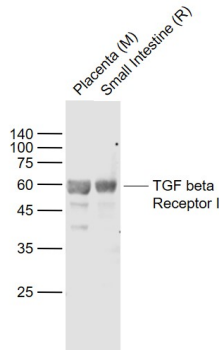
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## Images

**Fig1: Sample:**

Lane 1: Placenta (Mouse) Lysate at 40 ug

Lane 2: Small intestine (Rat) Lysate at 40 ug

Primary: Anti- TGF beta Receptor I (ER1917-65) at 1/1,000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20,000 dilution

Predicted band size: 56 kD

Observed band size: 58 kD

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Wang J et al. Nestin promotes pulmonary fibrosis via facilitating recycling of TGF-beta receptor I. Eur Respir J. 2022 May
2. Ghorbaninejad M et al. TGF-beta receptor I inhibitor may restrict the induction of EMT in inflamed intestinal epithelial cells. Exp Biol Med (Maywood). 2023 Apr

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