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Rabbit Anti-TGF beta Receptor I antibody

SL0638R

Product Name:	TGF beta Receptor I
Chinese Name:	转移生长因子β受体1抗体
Alias:	TGFBR1; TGF Beta R1; TGF beta Receptor I; AAT 5; AAT5; Activin A receptor type II like kinase 53kDa; Activin receptor like kinase 5; ACVRLK 4; ACVRLK4; ALK 5; ALK5; Serine/threonine protein kinase receptor R4; SKR 4; SKR4; TbetaR I; TGF beta receptor type 1; TGF beta receptor type I; TGF beta type I receptor; TGFBR 1; TGFBR1 protein; TGFR 1; TGFR1; Transforming growth factor beta receptor I;
文献引用 PubMed :	**Specific References(3)**|SL0638R has been referenced in 3 publications. **[IF=3.37]**Xie, Weihan, et al. "Regulation of cellular behaviors of fibroblasts related to wound healing by sol-gel derived bioactive glass particles." Journal of Biomedical Materials Research Part A (2016).**WB;Human**. PubMed:27177533 **[IF=1.37]**Yang, Xiao, et al. "Effect of Iodine Excess on Th1, Th2, Th17, and Treg Cell Subpopulations in the Thyroid of NOD. H-2h4 Mice." Biological Trace Element Research (2014): 1-9.**IHC-P;Mouse**. PubMed:24740393 **[IF=1.21]**Tang, K., et al. "GDF9 affects the development and tight junction functions of immature bovine Sertoli cells." Reproduction in Domestic Animals (2017).**WB;Bovine**. PubMed:28332739
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair）

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	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	55kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TGF-beta R1:301-400/501<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 (LDAS). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008] **Function:** On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for TGF-beta. **Subunit:** Homodimer; in the endoplasmic reticulum but also at the cell membrane. Heterohexamer; TGFB1, TGFB2 and TGFB3 homodimeric ligands assemble a functional receptor composed of two TGFBR1 and TGFBR2 heterodimers to form a ligand-receptor heterohexamer. The respective affinity of TGBRB1 and TGFBR2 for the ligands may modulate the kinetics of assembly of the receptor and may explain the different biological activities of TGFB1, TGFB2 and TGFB3. Interacts with CD109; inhibits TGF-beta receptor activation in keratinocytes. Interacts with RBPMS. Interacts (unphosphorylated) with FKBP1A; prevents TGFBR1 phosphorylation by TGFBR2 and stabilizes it in the inactive conformation. Interacts with SMAD2, SMAD3 and ZFYVE9; ZFYVE9 recruits SMAD2 and SMAD3 to the TGF-beta receptor. Interacts with TRAF6 and MAP3K7; induces MAP3K7 activation by TRAF6. Interacts with PARD6A; involved in TGF-beta induced epithelial to mesenchymal transition. Interacts with SMAD7, NEDD4L, SMURF1 and SMURF2; SMAD7 recruits NEDD4L, SMURF1 and SMURF2 to the TGF-beta receptor. **Subcellular Location:**

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	Cell membrane; Single-pass type I membrane protein. Cell junction, tight junction. **Tissue Specificity:** Found in all tissues examined, most abundant in placenta and least abundant in brain and heart. **Post-translational modifications:** Phosphorylated at basal levels in the absence of ligand binding. Activated by multiple phosphorylation, mainly in the GS region. **Similarity:** Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily. Contains 1 GS domain. Contains 1 protein kinase domain. **SWISS:** P36897 **Gene ID:** 7046 **Database links:** Entrez Gene: 7046 Human Entrez Gene: 21812 Mouse Entrez Gene: 29591 Rat Entrez Gene: 282382 Cow Omim: 190181 Human SwissProt: O46680 Cow SwissProt: P36897 Human SwissProt: Q64729 Mouse SwissProt: P80204 Rat Unigene: 494622 Human Unigene: 197552 Mouse Unigene: 44402 Rat

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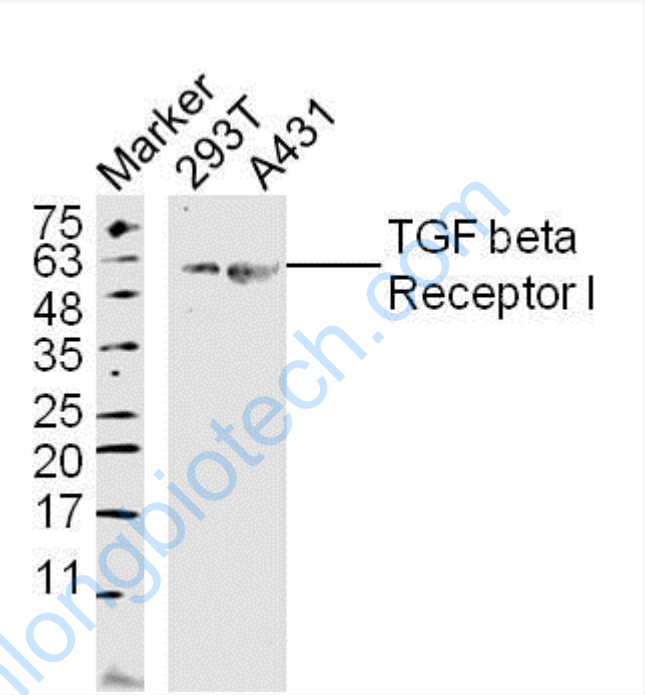
	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. The cell membrane受体(Membrane Receptors)TGF-βR Ⅰ
Picture:	 Sample: 293T(Human) Cell Lysate at 40 ug A431(Human) Cell Lysate at 40 ug Primary: Anti-TGF beta Receptor I (SL0638R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 55 kD Observed band size: 55 kD

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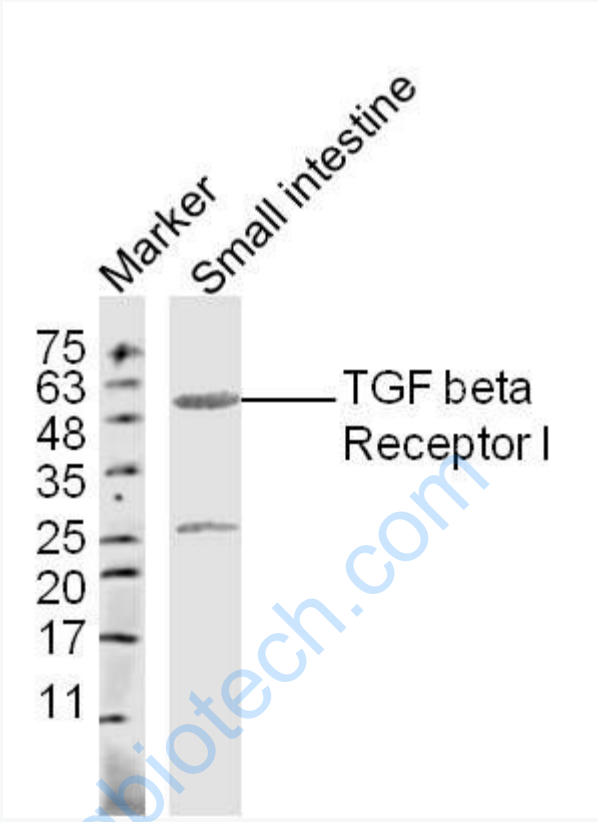

Sample: Small intestine (Mouse) Lysate at 30 ug

Primary: Anti- TGF beta Receptor 1 (SL0638R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 55 kD

Observed band size: 55 kD

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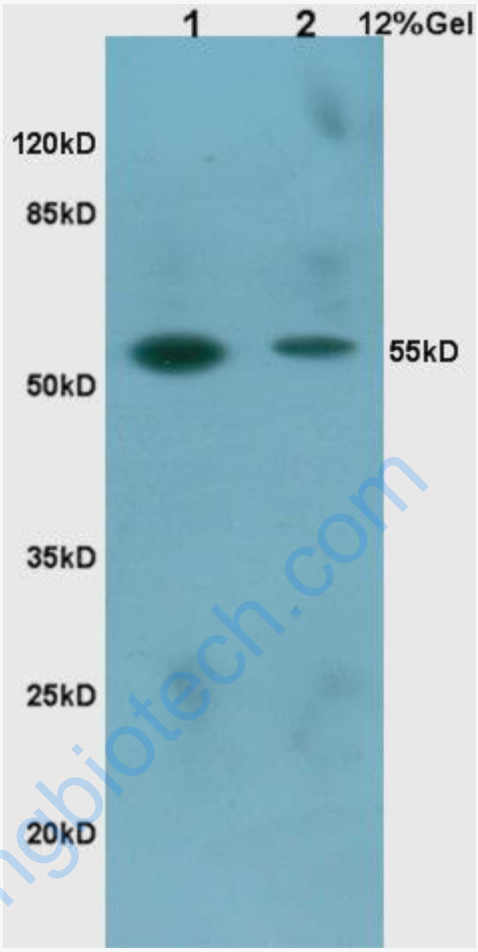

Sample:

Lane1: Gastric carcinoma(Human) Lysate at 30 ug

Lane2:Stomach (Mouse) Lysate at 30 ug

Primary: Anti-TGF Beta R1/TGFBR1 (SL0638R) at 1:200 dilution;

Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL0638R) at 1: 3000 dilution;

Predicted band size : 55kD

Observed band size : 55kD

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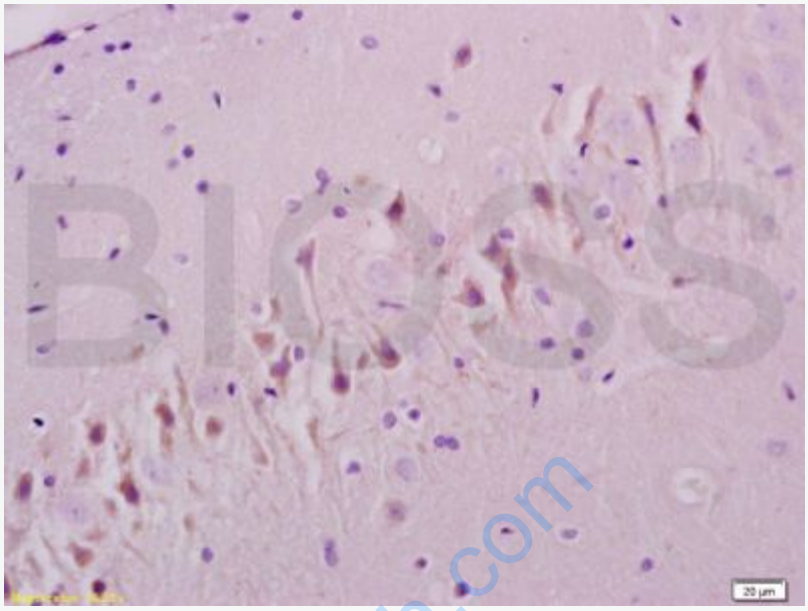

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37∩ for 20 min;

Incubation: Anti-TGF Beta R1/TGFBR1 Polyclonal Antibody, Unconjugated(SL0638R) 1:200, overnight at 4∑C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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