

Rabbit TGF Beta R1 Polyclonal Antibody | anti-TGFBetaR1 antibody

TGF Beta R1 Antibody PE Conjugated

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA312993	Rabbit	Human, Mouse, Rat	Immunofluorescence

PRODUCT SYNONYMS

TGF Beta R1; Polyclonal Antibody; TGF Beta R1 Antibody PE Conjugated; AAT5; ALK5; ESS1; LDS1; MSSE; SKR4; ALK-5; LDS1A; LDS2A; TGFR-1; ACVRLK4; TGF-beta receptor type-1; Activin A receptor type II-like protein kinase of 53kD; Activin receptor-like kinase 5; Serine threonine-protein kinase receptor R4; TGF-beta type I receptor; Transforming growth factor-beta receptor; TGF beta Receptor I; anti-TGFBetaR1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Purified by Protein A
Form/Format	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-TGFBetaR1 antibody	IF (Immunofluorescence)
Conjugation	PE
Excitation Emission	480,565nm 578nm
Immunogen	KLH conjugated synthetic peptide aa 310-360 501 derived from human TGF-beta R1
Cell localization	Cytoplasm
Preparation and Storage	Store at -20°C for one year. Avoid repeated freeze/thaw cycles

ADDITIONAL INFORMATION

Related Product Information for anti-TGFBetaR1 antibody	Transmembrane serine threonine kinase forming with the TGF-beta type II serine threonine kinase receptor, TGFB2, the non-promiscuous receptor for the TGF-beta cytokines TGFB1, TGFB2 and TGFB3. Transduces the TGFB1, TGFB2 and TGFB3 signal from the cell surface to the cytoplasm and is thus regulating a plethora of physiological and pathological processes including cell cycle arrest in epithelial and hematopoietic cells, control of mesenchymal cell proliferation and differentiation, wound healing, extracellular matrix production, immunosuppression and carcinogenesis. The formation of the receptor complex composed of 2 TGFB1 and 2 TGFB2 molecules symmetrically bound to the cytokine dimer results in the phosphorylation and the activation of TGFB1 by the constitutively active TGFB2. Activated TGFB1 phosphorylates SMAD2 which dissociates from the receptor and interacts with SMAD4. The SMAD2-SMAD4 complex is subsequently translocated to the nucleus where it modulates the transcription of the TGF-beta-regulated genes. This constitutes the canonical SMAD-dependent TGF-beta signaling cascade. Also involved in non-canonical, SMAD-independent TGF-beta signaling pathways. For instance, TGFB1 induces TRAF6 autoubiquitination which in turn results in MAP3K7 ubiquitination and activation to trigger apoptosis. Also regulates epithelial to mesenchymal transition through a SMAD-independent signaling pathway through PARD6A phosphorylation and activation.
Product Categories/Family for anti-TGFBetaR1 antibody	Conjugated Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	195963412
NCBI GeneID	7046
NCBI Accession #	NP_001124388.1
NCBI GenBank Nucleotide #	NM_001130916.1
UniProt Accession #	P36897; Q6IR47; Q706C0; Q706C1
NCBI Official Full Name	TGF-beta receptor type-1 isoform 2
NCBI Official Synonym Full Names	transforming growth factor, beta receptor 1
NCBI Official Symbol	TGFBR1
NCBI Official Synonym Symbols	AAT5; ALK5; MSSE; SKR4; ALK-5; LDS1A; LDS2A; TGFR-1; ACVRLK4
NCBI Protein Information	TGF-beta receptor type-1; tbetaR-I; TGF-beta receptor type I; TGF-beta type I receptor; activin receptor-like kinase 5; transforming growth factor beta receptor I; serine/threonine-protein kinase receptor R4; activin A receptor type II-like kinase, 53kD;
UniProt Protein Name	TGF-beta receptor type-1
UniProt Gene Name	TGFBR1
UniProt Synonym Gene Names	ALK5; SKR4; TGFR-1; ALK-5; ALK5; SKR4; TGF-beta receptor type I; TbetaR-I
UniProt Entry Name	TGFR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/tgf-beta-r1-antibody-immunofluorescence-elisa/312993>