

Rabbit anti-Human, Mouse TGF beta Receptor I Polyclonal Antibody | anti-TGF beta antibody

TGF beta Receptor I (Ab-165) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA304027	Rabbit	Human, Mouse	Immunofluorescence, Western Blot

PRODUCT SYNONYMS

TGF beta Receptor I; Polyclonal Antibody; TGF beta Receptor I (Ab-165) Antibody; TGF b Receptor I (Ab-165) Antibody; ADRB2; ALK-5; Activin receptor-like kinase 5; EC 2.7.11.30; ESK2; anti-TGF beta antibody

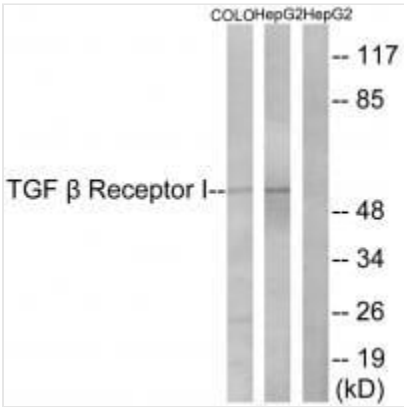
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Specificity	The antibody detects endogenous levels of total TGF b Receptor I protein
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	426
Applicable Applications for anti-TGF beta antibody	IF (Immunofluorescence), WB (Western Blot)
Immunogen Type	Peptide
Immunogen Description	Synthesized non-phosphopeptide derived from human TGF b Receptor I around the phosphorylation site of serine 165 (D-P-S(p)-L-D).
Target Name	TGF b Receptor I
Preparation and Storage	Store at -20 degree C

IMAGES



IF (Immunofluorescence)
Immunofluorescence analysis of HeLa cells, using TGF b Receptor I (Ab-165) antibody.



WB (Western Blot)
Western blot analysis of extracts from COLO cells and HepG2 cells, using TGF b Receptor I (Ab-165) antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-TGF beta antibody	Transmembrane serine/threonine kinase forming with the TGF-beta type II serine/threonine kinase receptor, TGFBR2, 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 TGFBR1 and 2 TGFBR2 molecules symmetrically bound to the cytokine dimer results in the phosphorylation and the activation of TGFBR1 by the constitutively active TGFBR2. Activated TGFBR1 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.Franzen P., Cell 75:681-692(1993).Vellucci V.F., Genomics 46:278-283(1997).Lynch M.A., Submitted (NOV-1997) to the EMBL/GenBank/DDBJ databases.
Product Categories/Family for anti-TGF beta antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	195963412
NCBI GeneID	7046
NCBI Accession #	NP_001124388.1
NCBI GenBank Nucleotide #	NM_001130916.2
UniProt Accession #	P36897; Q6IR47; Q706C0; Q706C1
Molecular Weight	47,690 Da
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; ESS1; LDS1; MSSE; SKR4; ALK-5; LDS1A; LDS2A; TGFR-1; ACVRLK4; tbetaR-I
NCBI Protein Information	TGF-beta receptor type-1

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tgf-beta-receptor-i-antibody-immunofluorescence-western-blot-elisa/304027>