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Datasheet for ABIN7180097

anti-TGFBR1 antibody (Ser165)

1 Image

Overview

Quantity:	100 µL
Target:	TGFBR1
Binding Specificity:	Ser165
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TGFBR1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Synthesized non-phosphopeptide derived from Human TGF beta Receptor I around the phosphorylation site of serine 165 (D-P-S(p)-L-D).
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	TGFBR1
Alternative Name:	TGFBR1 (TGFBR1 Products)

Background:

Background: 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, TGFBR1 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.

Aliases: AAT 5 antibody, AAT5 antibody, Activin A receptor type II like kinase 53 kDa antibody, Activin A receptor type II like kinase antibody, Activin A receptor type II like kinase, 53kD antibody, Activin A receptor type II like protein kinase of 53kD antibody, activin A receptor type II-like kinase, 53 kDa antibody, activin A receptor type II-like protein kinase of 53kD antibody, Activin receptor like kinase 5 antibody, Activin receptor-like kinase 5 antibody, ACVRLK 4 antibody, ACVRLK4 antibody, ALK 5 antibody, ALK-5 antibody, ALK5 antibody, LDS1A antibody, LDS2A antibody, MSSE antibody, Serine/threonine protein kinase receptor R4 antibody, Serine/threonine-protein kinase receptor R4 antibody, SKR 4 antibody, SKR4 antibody, TbetaR I antibody, TbetaR-I antibody, TGF beta receptor type 1 antibody, TGF beta receptor type I antibody, TGF beta type I receptor antibody, TGF-beta receptor type I antibody, TGF-beta receptor type-1 antibody, TGF-beta type I receptor antibody, TGFBR 1 antibody, TGFBR1 antibody, TGFBR1 protein antibody, TGFR 1 antibody, TGFR-1 antibody, TGFR1 antibody, TGFR1_HUMAN antibody, Transforming growth factor beta receptor 1 antibody, Transforming growth factor beta receptor I (activin A receptor type II like kinase, 53kD) antibody, Transforming growth factor beta receptor I antibody, transforming growth factor, beta receptor 1 antibody, transforming growth factor, beta receptor I (activin A receptor type II-like kinase, 53kD) antibody, Transforming growth factor-beta receptor type I antibody

Target Details

UniProt: [P36897](#)

Pathways: [Growth Factor Binding](#)

Application Details

Application Notes: WB:1:500-1:3000, IF:1:100-1:500,

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

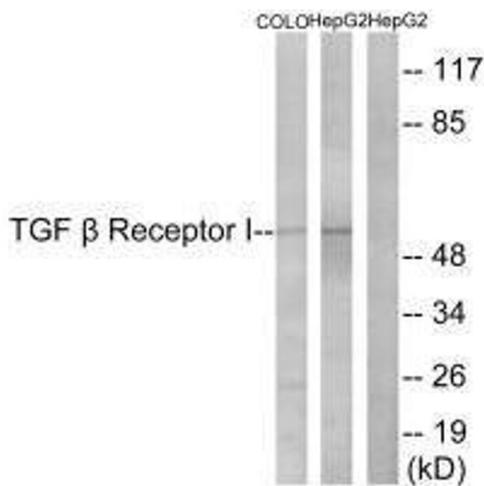
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, -80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Western Blotting

Image 1. Western blot analysis of extracts from COLO cells and HepG2 cells, using TGF β Receptor I (Ab-165) antibody.