Datasheet for ABIN7601395

anti-TGFBR1 antibody (AA 34-490)

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Overview

Quantity:	100 µg
Target:	TGFBR1
Binding Specificity:	AA 34-490
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TGFBR1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-TGF beta Receptor I/TGFBR1 Antibody Picoband®
Immunogen:	E.coli-derived human TGFBR1 recombinant protein (Position: L34-K490).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-TGF beta Receptor I/TGFBR1 Antibody Picoband® (ABIN7601395). Tested in ELISA, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

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Target Details

Target:	TGFBR1
Alternative Name:	TGFBR1 (TGFBR1 Products)
Background:	Synonyms: Protein argonaute-1,Argonaute1,hAgo1,Argonaute RISC catalytic component 1,Eukaryotic translation initiation factor 2C 1,eIF-2C 1,eIF2C 1,Putative RNA-binding protein Q99,AGO1,EIF2C1, Tissue Specificity: Detected in blood plasma (at protein level). Background: Transforming growth factor, beta receptor I is a TGF beta receptor. 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. Mutations in this gene have been associated with Loeys-Dietz aortic aneurysm syndrome (LDAS). TGFB1 regulates cell cycle progression by a unique signaling mechanism that involves its binding to TGFBR2 and activation of TGFBR1. Both are transmembrane serine/threonine receptor kinases. The TGFBR1 receptor may be inactivated in many of the cases of human tumor cells refractory to TGFB-mediated cell cycle arrest.
Molecular Weight:	56 kDa
Gene ID:	7046
UniProt:	P36897
Pathways:	Growth Factor Binding

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human ELISA, 0.1-0.5 µg/mL, - 1. Drera, B., Tadini, G., Barlati, S., Colombi, M.Identification of a novel TGFBR1 mutation in a Loeys-Dietz syndrome type II patient with vascular Ehlers-Danlos syndrome phenotype. (Letter)Clin. Genet. 73: 290-293, 2008. 2. Goudie, D. R., D'Alessandro, M., Merriman, B., Lee, H., Szeverenyi, I., Avery, S., O'Connor, B. D., Nelson, S. F., Coats, S. E., Stewart, A., Christie, L., Pichert, G., and 11 others.Multiple self-healing squamous epithelioma is caused by a disease-specific spectrum of mutations in TGFBR1.Nature Genet. 43: 365-369, 2011. 3. Vellucci, V. F., Reiss, M.Cloning and genomic organization of the human transforming growth factor-beta type I receptor gene.Genomics 46: 278-283, 1997.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

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