

Datasheet for ABIN4886739

anti-TGFBR1 antibody (N-Term)



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Publications



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Quantity:	100 μg
Target:	TGFBR1
Binding Specificity:	AA 149-186, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TGFBR1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-TGF beta Receptor I/TGFBR1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human TGFBR1, identical to the related mouse and rat sequences.
Sequence:	HNRTVIHHRV PNEEDPSLDR PFISEGTTLK DLIYDMTT
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-TGF beta Receptor I/TGFBR1 Antibody Picoband® (ABIN4886739). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. 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.

Product Details

	ion:

Immunogen affinity purified.

Target Details

Alternative Name: TGI Background: Syr kina	GFBR1 (TGFBR1 Products) Inonyms: TGF-beta receptor type-1,TGFR-1,2.7.11.30,Activin A receptor type II-like protein hase of 53kD,Activin receptor-like kinase 5,ALK-5,ALK5,Serine/threonine-protein kinase ceptor R4,SKR4,TGF-beta type I receptor,Transforming growth factor-beta receptor type IGF-beta receptor type I,TbetaR-I,TGFBR1,ALK5, SKR4, assue Specificity: Found in all tissues examined, most abundant in placenta and least aundant in brain and heart.
Background: Syr kina rec	nonyms: TGF-beta receptor type-1,TGFR-1,2.7.11.30,Activin A receptor type II-like protein hase of 53kD,Activin receptor-like kinase 5,ALK-5,ALK5,Serine/threonine-protein kinase ceptor R4,SKR4,TGF-beta type I receptor,Transforming growth factor-beta receptor type GF-beta receptor type I,TbetaR-I,TGFBR1,ALK5, SKR4, ssue Specificity: Found in all tissues examined, most abundant in placenta and least
kina	hase of 53kD,Activin receptor-like kinase 5,ALK-5,ALK5,Serine/threonine-protein kinase ceptor R4,SKR4,TGF-beta type I receptor,Transforming growth factor-beta receptor type GF-beta receptor type I,TbetaR-I,TGFBR1,ALK5, SKR4, ssue Specificity: Found in all tissues examined, most abundant in placenta and least
rec	ceptor R4,SKR4,TGF-beta type I receptor,Transforming growth factor-beta receptor type GF-beta receptor type I,TbetaR-I,TGFBR1,ALK5, SKR4, ssue Specificity: Found in all tissues examined, most abundant in placenta and least
	GF-beta receptor type I,TbetaR-I,TGFBR1,ALK5, SKR4, ssue Specificity: Found in all tissues examined, most abundant in placenta and least
I,TC	ssue Specificity: Found in all tissues examined, most abundant in placenta and least
Tis	undant in brain and heart.
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Bac	ckground: Transforming growth factor, beta receptor I is a TGF beta receptor. TGFBR1 is its
hur	man gene. The protein encoded by this gene forms a heteromeric complex with type II TGF-
bet	ta receptors when bound to TGF-beta, transducing the TGF-beta signal from the cell surface
to t	the cytoplasm. Mutations in this gene have been associated with Loeys-Dietz aortic
ane	eurysm syndrome (LDAS). TGFB1 regulates cell cycle progression by a unique signaling
me	echanism that involves its binding to TGFBR2 and activation of TGFBR1. Both are
trar	ansmembrane serine/threonine receptor kinases. The TGFBR1 receptor may be inactivated in
ma	any of the cases of human tumor cells refractory to TGFB-mediated cell cycle arrest.
Molecular Weight: 56	kDa
Gene ID: 704	46
UniProt: P36	36897
Pathways: Gro	owth Factor Binding
Application Details	

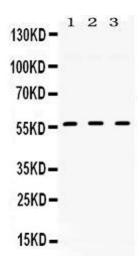
Application Notes:

Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat

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

Application Details

Application Details	
	receptor gene.Genomics 46: 278-283, 1997.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
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 and 0.2 mg Na2HPO4.
Handling Advice:	Avoid repeated freezing and thawing.
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.
Publications	
Product cited in:	Wang, Qin, Deng, Yao: "Different localization and expression of protein kinase C-beta in kidney
	cortex of diabetic nephropathy mice and its role in telmisartan treatment." in: American journal
	of translational research, Vol. 7, Issue 6, pp. 1116-25, (2015) (PubMed).
	Li, Yang: "[Effect of interferon-α on rat liver fibrosis induced by CCI(4)]." in: Zhong nan da xue
	xue bao. Yi xue ban = Journal of Central South University. Medical sciences, Vol. 36, Issue 3,
	pp. 243-8, (2012) (PubMed).
	Wei, Lu, Li, Zhan, Wang, Huang: "The expression of AT1 receptor on hepatic stellate cells in rat
	fibrosis induced by CCl4." in: Chinese medical journal , Vol. 114, Issue 6, pp. 583-7, (2002) (
	PubMed).



Western Blotting

Image 1. Western blot analysis of TGFBR1 expression in rat cardiac muscle extract (Lane 1), mouse liver extract (Lane 2) and HELA whole cell lysates (Lane 3). TGFBR1 at 56KD was detected using rabbit anti-TGFBR1 Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5??g/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).