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## anti-TGFBR1 antibody (Internal Region)

2 Images



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Target:

Quantity:	100 μL
Target:	TGFBR1
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TGFBR1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)
Product Details	
Immunogen:	A synthesized peptide derived from human TGFBR1, corresponding to a region within the internal amino acids.
Isotype:	IgG
Specificity:	TGFBR1 Antibody detects endogenous levels of total TGFBR1.
Predicted Reactivity:	Pig,Bovine,Sheep,Rabbit,Dog,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).
Target Details	

TGFBR1

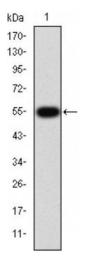
### **Target Details**

Alternative Name:	TGFBR1 (TGFBR1 Products)
Background:	Description: 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 constitute:
	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.
	Gene: TGFBR1
Molecular Weight:	56 kDa.
Gene ID:	7046
UniProt:	P36897
Pathways:	Growth Factor Binding
Application Details	
Application Notes:	WB 1:500-1:2000, IF/ICC 1:100-1:500, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %

#### Handling

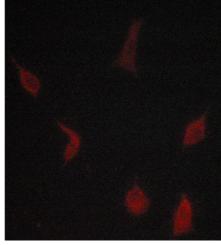
	glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

#### **Images**



#### **Western Blotting**

**Image 1.** Western blot analysis of TGF  $\beta$  Receptor I expression in HepG2 cells



#### Immunofluorescence (fixed cells)

**Image 2.** ABIN6268894 staining lovo cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37°C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37°C. A Alexa Fluor® 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.