

## Anti-TGF beta Receptor I/TGFBR1 Antibody Picoband® PE Conjugated

Catalog Number: PB9828-PE

### About TGFBR1

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 Loey's-Dietz aortic aneurysm syndrome (LDAS). TGFBR1 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 TGF-beta-mediated cell cycle arrest. Vellucci and Reiss (1997) reported that the TGFBR1 gene is approximately 31 kb long and contains 9 exons. The organization of the segment of the gene that encodes the C-terminal portion of the serine/threonine kinase domain appears to be highly conserved among members of the gene family.

### Overview

Product Name	Anti-TGF beta Receptor I/TGFBR1 Antibody Picoband® PE Conjugated
Reactive Species	Human
Application	Recommended applications are based on the parent unconjugated antibody (WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P36897

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human TGFBR1, identical to the related mouse and rat sequences.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	PE Excitation Wavelength: 566 nm

	Emission Wavelength: 574 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

### 3 Publications Citing This Product

1. PubMed ID: 11780431, Effects of AT1 receptor antagonist, losartan, on rat hepatic fibrosis induced by CCI4
2. PubMed ID: 26279755, Different localization and expression of protein kinase C-beta in kidney cortex of diabetic nephropathy mice and its role in telmisartan treatment
3. PubMed ID: 21464546, Effects of interferon-alpha on expression of hepatic stellate cell and transforming growth factor- $\beta$ 1 and  $\beta$ -smooth muscle actin in rats with hepatic fibrosis

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