

## Anti-TGF beta Receptor II/TGFBR2 Antibody Picoband® Fluoro647 Conjugated

Catalog Number: PB9829-Fluoro647

### About TGFBR2

TGFBR2 (transforming growth factor, beta receptor II (70/80kDa)), also known as TGF-beta receptor type-2, TGFR-2, TGF-beta type II receptor, Transforming growth factor-beta receptor type II ( TGF-beta receptor type II, TbetaR-II), is a member of the Ser/Thr protein kinase family and the TGFBR2 receptor subfamily. A TGFBR2 cDNA encodes a deduced 565-amino acid protein with a calculated molecular mass of approximately 60 kD in length. The encoded protein is a transmembrane protein that has a protein kinase domain, forms a heterodimeric complex with another receptor protein, and binds TGF-beta. This receptor/ligand complex phosphorylates proteins, which then enter the nucleus and regulate the transcription of a subset of genes related to cell proliferation. Mutations in this gene have been associated with Marfan syndrome, Loeys-Deitz aortic aneurysm syndrome, Osler-Weber-Rendu syndrome, and the development of various types of tumors. Alternatively spliced transcript variants encoding different isoforms have been characterized.

### Overview

Product Name	Anti-TGF beta Receptor II/TGFBR2 Antibody Picoband® Fluoro647 Conjugated
Reactive Species	Human
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P37173

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human TGFBR2, different from the related mouse sequence by five amino acids, and from the related rat sequence by eight amino acids.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.

Conjugate	Fluoro647 Excitation Wavelength: 650 nm Emission Wavelength: 665 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

## 2 Publications Citing This Product

1. PubMed ID: 26839890, Mechanism Investigation of the Improvement of Chang Run Tong on the Colonic Remodeling in Streptozotocin-Induced Diabetic Rats
2. PubMed ID: 27019660, Effect of Kuijie Granule on the Expression of TGF- $\beta$ /Smads Signaling Pathway in Patients with Ulcerative Colitis

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