

## Anti-TGF beta Receptor III/TGFBR3 Antibody Picoband®

Catalog Number: A02765-4

### About TGFBR3

Betaglycan also known as Transforming growth factor beta receptor III (TGFBR3), is a cell-surface chondroitin sulfate / heparan sulfate proteoglycan >300 kDa in molecular weight. This locus encodes the transforming growth factor (TGF)-beta type III receptor. The encoded receptor is a membrane proteoglycan that often functions as a co-receptor with other TGF-beta receptor superfamily members. Ectodomain shedding produces soluble TGFBR3, which may inhibit TGFβ signaling. Decreased expression of this receptor has been observed in various cancers. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene.

### Overview

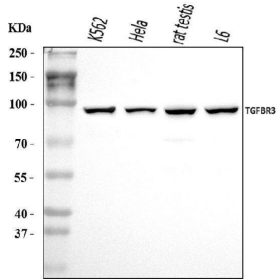
Product Name	Anti-TGF beta Receptor III/TGFBR3 Antibody Picoband®
Reactive Species	Human, Rat
Description	Boster Bio Anti-TGF beta Receptor III/TGFBR3 Antibody Picoband® catalog # A02765-4. Tested in WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium 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.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q03167

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human TGF beta Receptor III/TGFBR3, which shares 92.3% amino acid (aa) sequence identity with mouse and rat TGFBR3.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.25 ug/ml, Human, Rat

## Anti-TGF beta Receptor III/TGFBR3 Antibody Picoband® (A02765-4) Images



Western blot analysis of TGF Beta Receptor III/TGFBR3 using anti-TGF Beta Receptor III/TGFBR3 antibody (A02765-4). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates, Lane 2: human HeLa whole cell lysates, Lane 3: rat testis tissue lysates, Lane 4: rat L6 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TGF Beta Receptor III/TGFBR3 antigen affinity purified polyclonal antibody (Catalog # A02765-4) at 0.25 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TGF Beta Receptor III/TGFBR3 at approximately 93 kDa. The expected band size for TGF Beta Receptor III/TGFBR3 is at 93 kDa.

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