

Anti-TGF beta Receptor II/TGFB2 Antibody

Catalog Number: PA1866

About TGFB2

TGFB2 (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 TGFB receptor subfamily. A TGFB2 cDNA encoding 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. TGFB2 may be a target of the EWS-FLI1 fusion protein found in Ewing sarcoma and related peripheral primitive neuroectodermal tumors.

Overview

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| Product Name | Anti-TGF beta Receptor II/TGFB2 Antibody |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-TGF beta Receptor II/TGFB2 Antibody catalog # PA1866. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. |
| Application | WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. |
| Storage Instructions | 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. |
| Host | Rabbit |
| Uniprot ID | P37173 |

Technical Details

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| Immunogen | A synthetic peptide corresponding to a sequence in the middle region of human TGF beta Receptor II, identical to the related rat and mouse sequences. |
| Predicted Reactive Species | Hamster |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot. |
| Cross Reactivity | No cross-reactivity with other proteins |

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| 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 | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p> |

Anti-TGF beta Receptor II/TGFBR2 Antibody (PA1866) Images



Anti-TGF beta Receptor II antibody, PA1866, Western blotting

All lanes: Anti TGF beta Receptor II (PA1866) at 0.5ug/ml

Lane 1: HEPG2 Whole Cell Lysate at 40ug

Lane 2: COLO320 Whole Cell Lysate at 40ug

Predicted bind size: 65KD

Observed bind size: 65KD

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- β /Smads Signaling Pathway in Patients with Ulcerative Colitis

Visit bosterbio.com/anti-tgf-beta-receptor-ii-antibody-pa1866-boster.html to see all 2 publications.

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