

Datasheet for ABIN3044092

anti-TGFBR2 antibody (Middle Region)



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Overview

Quantity:	100 µg
Target:	TGFBR2
Binding Specificity:	AA 330-346, Middle Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TGFBR2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-TGF beta Receptor II/TGFBR2 Antibody Picoband®
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.
Sequence:	KGNLQEYLTR HVISWED
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-TGF beta Receptor II/TGFBR2 Antibody (ABIN3044092). Tested in WB applications. This antibody reacts with Human, Mouse, 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.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: TGFR2

Alternative Name: TGFR2 ([TGFR2 Products](#))

Background: Synonyms: TGF-beta receptor type-2;TGFR-2;2.7.11.30;TGF-beta type II receptor;Transforming growth factor-beta receptor type II;TGF-beta receptor type II;TbetaR-II;TGFR2;
Tissue Specificity: Abundant in brain.
Background: TGFR2 (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 TGFR2 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. TGFR2 may be a target of the EWS-FLI1 fusion protein found in Ewing sarcoma and related peripheral primitive neuroectodermal tumors.
Sequence Similarities: Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.

Molecular Weight: 65 kDa

UniProt: [P37173](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat
1. Hagen, G., Muller, S., Beato, M., Suske, G. Cloning by recognition site screening of two novel GT box binding proteins: a family of Sp1 related genes. Nucleic Acids Res. 20: 5519-5525, 1992.
2. Lin, H. Y., Wang, X.-F., Ng-Eaton, E., Weinberg, R. A., Lodish, H. F. Expression cloning of the TGF-beta type II receptor, a functional transmembrane serine/threonine kinase. Cell 68: 775-

Application Details

785, 1992. 3. Hahm, K.-B., Cho, K., Lee, C., Im, Y.-H., Chang, J., Choi, S.-G., Sorensen, P. H. B., Thiele, C. J., Kim, S.-J. Repression of the gene encoding the TGF-beta type II receptor is a major target of the EWS-FLI1 oncoprotein. Nature Genet. 23: 222-227, 1999.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C, -20 °C

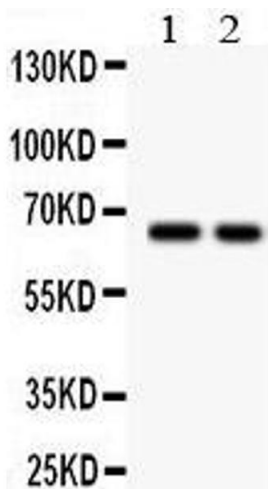
Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Expiry Date: 12 months

Publications

Product cited in: Sha, Zhao, Tong, Gregersen, Zhao: "Mechanism Investigation of the Improvement of Chang Run Tong on the Colonic Remodeling in Streptozotocin-Induced Diabetic Rats." in: **Journal of diabetes research**, Vol. 2016, pp. 1826281, (2016) ([PubMed](#)).

Xu, Xu, Saud, Lu, Liu, Fang, Zhang, Hu, Li: "Effect of Kuijie Granule on the Expression of TGF-β/Smads Signaling Pathway in Patients with Ulcerative Colitis." in: **Evidence-based complementary and alternative medicine : eCAM**, Vol. 2016, pp. 2601830, (2016) ([PubMed](#)).



Western Blotting

Image 1. Lane 2: COLO320 Whole Cell Lysate at 40ug
Predicted bind size: 65KD Observed bind size: 65KD