Datasheet for ABIN3043311

# anti-TGFBR2 antibody (N-Term)

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## Overview

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| Quantity: | 100 µg |
| Target: | TGFBR2 |
| Binding Specificity: | AA 96-128, N-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This TGFBR2 antibody is un-conjugated |
| Application: | Western Blotting (WB) |

## Product Details

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| Purpose: | Anti-TGF beta Receptor II/TGFBR2 Antibody Picoband® |
| 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. |
| Sequence: | TLETVCHDPK LPYHDFILED AASPKCIMKE KKK |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins |
| Characteristics: | Anti-TGF beta Receptor II/TGFBR2 Antibody Picoband® (ABIN3043311). Tested in WB applications. This antibody reacts with Human. 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 |

## Product Details

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| | as Picoband, ensuring unmatched performance. |
| Purification: | Immunogen affinity purified. |

## Target Details

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| Target: | TGFBR2 |
| Alternative Name: | TGFBR2 (TGFBR2 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,TGFBR2,<br>Tissue Specificity: Found in all tissues examined, most abundant in placenta and least abundant in brain and heart.<br>Background: TGFBR2 (transforming growth factor, beta receptor II (70/80 kDa)), 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 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 informs have been characterized. |
| Molecular Weight: | 70 kDa |
| Gene ID: | 7048 |
| UniProt: | P37173 |

## Application Details

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| Application Notes: | Western blot, 0.1-0.5 µg/mL, Human<br>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: 775-785, 1992. 3. Hahm, K.-B., Cho, K., Lee, C., Im, Y.-H., Chang, J., Choi, S.-G., Sorensen, P. H. B., |

## Application Details

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| | 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

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| 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 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4. |
| 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. |

## Publications

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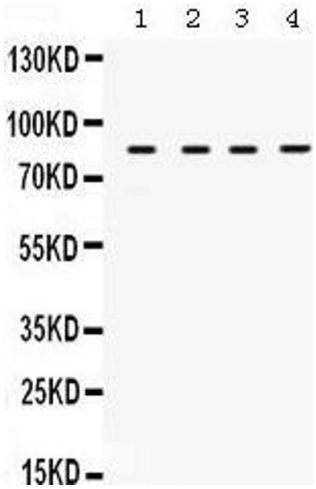
| Product cited in: | Sha, Zhao, Tong, Gregersen, Zhao: "Mechanism Investigation of the Improvement of Chang Run Tong on the Colonic Remodeling in Streptozotocin-Induced Diabetic Rats." in: **Journal of diabetes research**, Vol. 2016, pp. 1826281, (2016) (PubMed).<br><br>Xu, Xu, Saud, Lu, Liu, Fang, 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.**