

Product datasheet for **TA335780**

TGF beta Receptor II (TGFBR2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for Anti-TGFBR2 Antibody: synthetic peptide directed towards the N terminal of human TGFBR2. Synthetic peptide located within the following region: MGRGLLRGLWPLHIVLWTRIASTIPPHVQKSDVEMEAQKDEIICPSCNRT
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Protein A purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	62 kDa
Gene Name:	transforming growth factor beta receptor 2
Database Link:	NP_003233 Entrez Gene 21813 Mouse Entrez Gene 7048 Human P37173



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Background:

TGFB2 is a member of the Ser/Thr protein kinase family and the TGFB receptor subfamily. The 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 its gene have been associated with Marfan Syndrome, Loeys-Deitz Aortic Aneurysm Syndrome, and the development of various types of tumors. This gene is a member of the Ser/Thr protein kinase family and the TGFB receptor subfamily. It encodes 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, and the development of various types of tumors. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

Synonyms:

AAT3; FAA3; LDS1B; LDS2; LDS2B; MFS2; RIIC; TAAD2; TGFbeta-RII; TGFR-2

Note:

Immunogen Sequence Homology: Human: 100%; Rabbit: 100%; Pig: 93%; Rat: 93%; Goat: 93%; Mouse: 93%; Bovine: 93%; Sheep: 91%

Protein Families:

Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways:

Adherens junction, Chronic myeloid leukemia, Colorectal cancer, Cytokine-cytokine receptor interaction, Endocytosis, MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, TGF-beta signaling pathway

Product images:

WB Suggested Anti-TGFB2 Antibody Titration: 5.0 ug/ml; Positive Control: HepG2 cell lysate. TGFB2 is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells