

## Rabbit TGFR2 Polyclonal Antibody | anti-TGFR2 antibody

TGFR2 Antibody

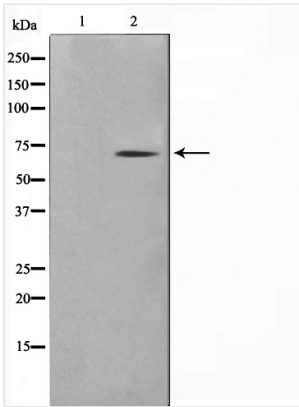
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS        |
|-----------|--------|-------------------|---------------------|
| AAA320900 | Rabbit | Human, Mouse, Rat | ELISA, Western Blot |

### PRODUCT SYNONYMS

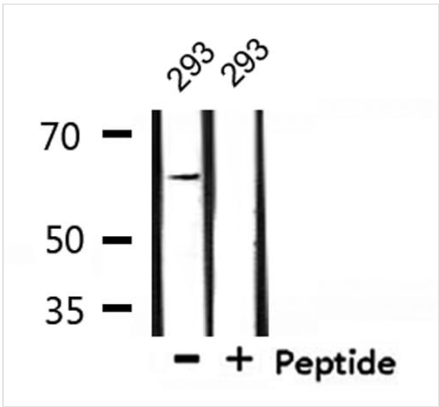
TGFR2; Polyclonal Antibody; TGFR2 Antibody; AAT3; FAA3; LDS1B; LDS2; LDS2B; MFS2; RIIC; TAAD2; TbetaR II; TbetaR-II; TGF beta receptor type 2; TGF beta receptor type II; TGF beta receptor type IIB; TGF beta type II receptor; TGF-beta receptor type II; TGF-beta receptor type-2; TGF-beta type II receptor; TGF-beta-R2; TGFB R2; TGFbeta-RII; TGFbeta RII; Tgfr2; TGFR-2; TGFR2\_HUMAN; Transforming growth factor beta receptor II; Transforming growth factor beta receptor type II; Transforming growth factor beta receptor type IIC; Transforming growth factor; beta receptor II (70/80kDa); transforming growth factor; beta receptor II alpha; beta receptor II beta; beta receptor II delta; beta receptor II epsilon; beta receptor II gamma; Transforming growth factor-beta receptor type II; anti-TGFR2 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                               |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                        |
| Reactivity                                      | Human, Mouse, Rat                                                                             |
| Clonality                                       | Polyclonal                                                                                    |
| Isotype                                         | IgG                                                                                           |
| Specificity                                     | TGFR2 antibody detects endogenous levels of total TGFR2                                       |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                   | 1mg/ml (varies by lot)                                                                        |
| Sequence Length                                 | 592                                                                                           |
| Applicable Applications for anti-TGFR2 antibody | ELISA, WB (Western Blot)                                                                      |
| Immunogen                                       | A synthesized peptide derived from human TGFR2                                                |
| Subcellular Location                            | Cell Membrane                                                                                 |
| Conjugation                                     | Unconjugated                                                                                  |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                             |



**WB (Western Blot)**  
Western blot analysis on NIH-3T3 cell lysate using TGFBR2 Antibody. The lane on the left is treated with the antigen-specific peptide.



**WB (Western Blot)**  
Western blot analysis of extracts from 293, using TGFBR2 Antibody.

ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-TGFR2 antibody</b> | <p>Description: TGFBR2 a TKL kinase of the serine/threonine-protein kinase receptor (STKR) family. R1 and R2 TGF-beta receptors dimerize after binding TGF-beta at the cell surface. Binds to DAXX. Defects can cause esophageal cancer.</p> <p>Function: Transmembrane serine/threonine kinase forming with the TGF-beta type I serine/threonine kinase receptor, TGFBR1, the non-promiscuous receptor for the TGF-beta cytokines TGFB1, TGFB2 and TGFB3. Transduces the TGFB1, TGFB2 and TGFB3 signal from the cell surface to the cytoplasm and is thus regulating a plethora of physiological and pathological processes including cell cycle arrest in epithelial and hematopoietic cells, control of mesenchymal cell proliferation and differentiation, wound healing, extracellular matrix production, immunosuppression and carcinogenesis. The formation of the receptor complex composed of 2 TGFBR1 and 2 TGFBR2 molecules symmetrically bound to the cytokine dimer results in the phosphorylation and the activation of TGFBR1 by the constitutively active TGFBR2. Activated TGFBR1 phosphorylates SMAD2 which dissociates from the receptor and interacts with SMAD4. The SMAD2-SMAD4 complex is subsequently translocated to the nucleus where it modulates the transcription of the TGF-beta-regulated genes. This constitutes the canonical SMAD-dependent TGF-beta signaling cascade. Also involved in non-canonical, SMAD-independent TGF-beta signaling pathways.</p> <p>Subunit Structure: Homodimer. Heterohexamer; TGFB1, TGFB2 and TGFB3 homodimeric ligands assemble a functional receptor composed of two TGFBR1 and TGFBR2 heterodimers to form a ligand-receptor heterohexamer. The respective affinity of TGFBR1 and TGFBR2 for the ligands may modulate the kinetics of assembly of the receptor and may explain the different biological activities of TGFB1, TGFB2 and TGFB3. Interacts with DAXX. Interacts with TCTEX1D4. Interacts with ZFYVE9; ZFYVE9 recruits SMAD2 and SMAD3 to the TGF-beta receptor. Interacts with and is activated by SCUBE3; this interaction does not affect TGFB1-binding to TGFBR2. Interacts with VPS39; this interaction is independent of the receptor kinase activity and of the presence of TGF-beta.</p> <p>Post-translational Modifications: Phosphorylated on a Ser/Thr residue in the cytoplasmic domain.</p> <p>Similarity: Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.</p> |
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NCBI AND UNIPROT INFORMATION

|                           |                                        |
|---------------------------|----------------------------------------|
| NCBI GI #                 | 67782326                               |
| NCBI GeneID               | 7048                                   |
| NCBI Accession #          | NP_001020018.1                         |
| NCBI GenBank Nucleotide # | NM_001024847.2                         |
| UniProt Accession #       | P37173; Q15580; Q6DKT6; Q99474; B4DTV5 |
| Molecular Weight          | Observed: 65 kDa<br>Predicted: 65 kDa  |
| NCBI Official Full Name   | TGF-beta receptor type-2 isoform A     |

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| NCBI Official Synonym Full Names | transforming growth factor beta receptor 2                                            |
| NCBI Official Symbol             | TGFBR2                                                                                |
| NCBI Official Synonym Symbols    | AAT3; FAA3; LDS2; MFS2; RIIC; LDS1B; LDS2B; TAAD2; TBR1I; TBR-ii; TGFR-2; TGFbeta-RII |
| NCBI Protein Information         | TGF-beta receptor type-2                                                              |
| UniProt Protein Name             | TGF-beta receptor type-2                                                              |
| UniProt Gene Name                | <b>TGFBR2</b>                                                                         |
| UniProt Synonym Gene Names       | TGFR-2; TGF-beta receptor type II; TbetaR-II                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/tgfr2-antibody-western-blot-elisa/320900>