

TGFR2 Antibody (aa100-150)
Rabbit Polyclonal Antibody
Catalog # ALS16446**Specification**

TGFR2 Antibody (aa100-150) - Product Information

Application	WB, IHC-P
Primary Accession	P37173
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	65kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A

TGFR2 Antibody (aa100-150) - Additional Information**Gene ID** 7048**Other Names**

TGF-beta receptor type-2, TGF-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

Target/Specificity

Human TGFR2

Reconstitution & Storage

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

Precautions

TGFR2 Antibody (aa100-150) is for research use only and not for use in diagnostic or therapeutic procedures.

TGFR2 Antibody (aa100-150) - Protein Information**Name** TGFR2**Function**

Transmembrane serine/threonine kinase forming with the TGF- beta type I serine/threonine kinase receptor, TGFR1, 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 thus regulates 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 TGFR1 and 2 TGFR2 molecules symmetrically bound to the cytokine dimer results in the phosphorylation and activation of TGFR1 by the constitutively active TGFR2. Activated TGFR1 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.

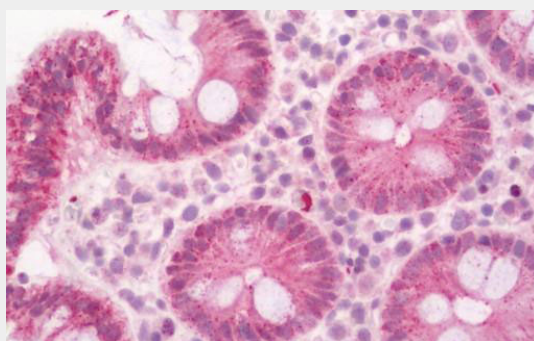
Cellular Location

Cell membrane; Single-pass type I membrane protein. Membrane raft

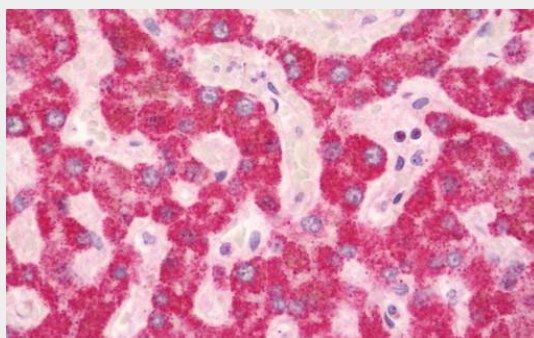
TGFBR2 Antibody (aa100-150) - Protocols

Provided below are standard protocols that you may find useful for product applications.

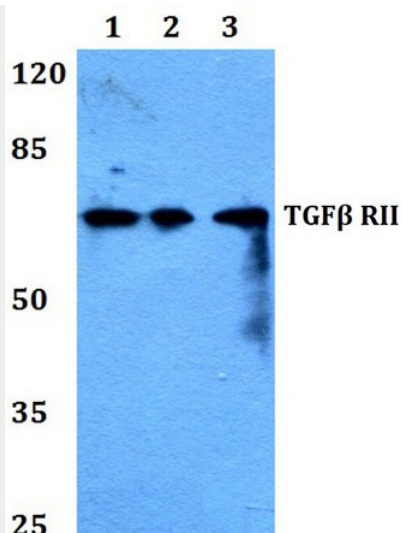
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TGFBR2 Antibody (aa100-150) - Images

Human Colon: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)



Western blot analysis of Anti-TGFB2 Antibody at 1:500 dilution.

TGFB2 Antibody (aa100-150) - Background

Transmembrane serine/threonine kinase forming with the TGF-beta type I serine/threonine kinase receptor, TGFB1, 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 TGFB1 and 2 TGFB2 molecules symmetrically bound to the cytokine dimer results in the phosphorylation and the activation of TGFB1 by the constitutively active TGFB2. Activated TGFB1 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.

TGFB2 Antibody (aa100-150) - References

- Lin H.Y.,et al.Cell 68:775-785(1992).
- Lin H.Y.,et al.Cell 70:1069-1069(1992).
- Nikawa J.,et al.Gene 149:367-372(1994).
- Takenoshita S.,et al.Genomics 36:341-344(1996).
- Lu S.-L.,et al.Cancer Res. 56:4595-4598(1996).