

TGFR2 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51560**Specification**

TGFR2 Antibody - Product Information

Application	WB, E
Primary Accession	P37173
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70 KDa

TGFR2 Antibody - Additional Information**Gene ID** 7048**Other Names**

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, TGFR2

Dilution

WB~~1:1000

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C.Stable for 12 months from date of receipt

TGFR2 Antibody - 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 - 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 - Images

TGFBR2 Antibody - Background

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TGFBR2 Antibody - 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).