

TGFBR2 (pS225) Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51559**Specification**

TGFBR2 (pS225) Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	P37173
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	65 KDa

TGFBR2 (pS225) 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, TGFBR2

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

TGFBR2 (pS225) Antibody - Protein Information**Name** TGFBR2**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 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 TGFBR1 and 2 TGFBR2 molecules symmetrically bound to the cytokine dimer results in the phosphorylation and 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.

Cellular Location

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

TGFBR2 (pS225) 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 (pS225) Antibody - Images

TGFBR2 (pS225) Antibody - Background

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TGFBR2 (pS225) Antibody - References

Lin H.Y., et al. Cell 68:775-785(1992).
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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).