



## TGFBR3 Polyclonal Antibody

E90627

**Catalog Number:** E90627

**Amount:** 100ul

**Background:** Transforming growth factor- $\beta$  (TGF- $\beta$ ) superfamily members are critical regulators of cell proliferation and differentiation, developmental patterning and morphogenesis, and disease pathogenesis (1-4). TGF- $\beta$  elicits signaling through three cell surface receptors: type I (RI), type II (RII), and type III (RIII). Type I and type II receptors are serine/threonine kinases that form a heteromeric complex. In response to ligand binding, the type II receptors form a stable complex with the type I receptors allowing phosphorylation and activation of type I receptor kinases (5). The type III receptor, also known as betaglycan, is a transmembrane proteoglycan with a large extracellular domain that binds TGF- $\beta$  with high affinity but lacks a cytoplasmic signaling domain (6,7). Expression of the type III receptor can regulate TGF- $\beta$  signaling through presentation of the ligand to the signaling complex. The only known direct TGF- $\beta$  signaling effectors are the Smad family proteins, which transduce signals from the cell surface directly to the nucleus to regulate target gene transcription (8,9).

**Species:** Rabbit

**Isotype:** IgG

**Storage/Stability:** Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonyms:** BGCAN; betaglycan; TGF-beta Receptor III;

**Immunogen:** A synthetic peptide of human TGFBR3

**Purification:** Affinity purification

**Reactivity:** H

**Applications:** WB

**Molecular Weight:** 93kDa

**Swiss-Prot No. :** Q03167

**Gene ID:** 7049

**References:** 1. Massague, J. et al. (2000) Cell 103, 295-309. 2. Caestecker, M.P. et al. (2000) J. Natl. Cancer Inst. 92, 1388-1402. 3. Derynck, R. et al. (2001) Nature Genet. 29, 117-129. 4. Miyazono, K. et al. (2000) Adv. Immunol. 75, 115-157. 5. Derynck, R. et al. (1997) Biochim. Biophys. Acta. 1333, F105-150. 6. López-Casillas, F. et al. (1991) Cell 67, 785-795. 7. Wang, X.F. et al. (1991) Cell 67, 797-805. 8. Derynck, R. et al. (1998) Cell 95, 737-740. 9. Massague, J. et al. (2000) Nat. Rev. Mol. Cell Biol. 1, 169-178.

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