www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

TGFBR3

Reactivity: Human Mouse

Tested applications:WB

Recommended Dilution:WB 1:500 - 1:1000

Calculated MW:93kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human TGFBR3

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

BGCAN; betaglycan; TGF-beta Receptor III;

Catalog #:A0627

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:7049

Isotype: IgG

Swiss Prot:Q03167

Purity: Affinity purification

For research use only.

Background:

Transforming growth factor- (TGF-) superfamily members are critical regulators of cell proliferation and differentiation, developmental patterning and morphogenesis, and disease pathogenesis (1-4). TGF- 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- with high affinity but lacks a cytoplasmic signaling domain (6,7). Expression of the type III receptor can regulate TGF- signaling through presentation of the ligand to the signaling complex. The only known direct TGF- 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).

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