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TGFB1

Reactivity: Human Mouse Rat

Tested applications:WB IHC

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200

Calculated MW:44kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human TGFB1

Storage Buffer:

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

Concentration:

brt

Synonym:

CED; DPD1; TGFB; TGFbeta;

Catalog #:A2124

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:7040

Isotype: IgG

Swiss Prot:P01137

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).Three isoforms of TGF-, designated TGF-1, TGF-2 and TGF-3, are encoded by distinct genes and are expressed in a tissue specific manner (10). Each isoform is synthesized as a larger precursor protein containing a propeptide region that is removed prior to secretion. Mature TGF- contains two polypeptides linked by disulfide bonds to form a protein of approximately 25 kDa.

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