

## TGFB1

**Reactivity:**Human

**Tested applications:**WB

**Recommended Dilution:**WB 1:500 - 1:2000

**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.

**Synonym:**

CED; DPD1; TGFB; TGFbeta;

**Catalog #:**A11220

**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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