

**Mouse Anti-Human TGF- β Monoclonal Antibody Datasheet****Product Name:** mAb anti-Human TGF- β **Clone No.:** 2E6**Catalogue No.:** MO-C40009E**Quantity:** 0.5 mg/vial

Description: Mouse monoclonal antibody to human Transforming Growth Factor beta (TGF- β)

Purification: Protein G affinity purified

Product Type: Primary antibody

Target Protein: Human TGF- β

Immunogen: TGF- β from human platelets

Fusion Myeloma: Sp2/0-Ag14

Specificity: Western blotting demonstrated that this antibody reacts with the dimeric (25 kDa) and monomeric (12.5 kDa.) forms of TGF- β under both non-reducing and reducing conditions respectively. This antibody recognizes both human platelet-derived and recombinant TGF- β in ELISA.

Species Reactivity: Human, others not tested

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized in 0.01M PBS, pH 7.0.

Reconstitution: Double distilled water is recommended and to adjust the final concentration to 1.00mg/mL.

Storage: Store at -20°C

Research Area: Growth Factors and Their Receptors, Angiogenesis

Background: Transforming growth factor beta (TGF- β) has three isoforms (TGF- β 1, TGF- β 2, and

TGF- β 3) with similar functions.

The cytokine is a homodimer linked by disulfide bond. Inside cells, the cytokine forms a small latent complex with latent associated peptide (LAP). This small complex binds to latent TGF- β binding protein (LTBP) to be secreted to extra-cellular matrix. Disassociation of the latent proteins from TGF- β results in the release of the cytokine to its receptor. The process is called activation, which can be influenced by various factors, including proteases, metalloproteases, extreme pH, mild acidic condition, reactive oxygen species and integrins.

TGF- β is an anti-proliferation factor in normal cells. It increases the synthesis of p15 and p21, which can block the cyclin: CDK complex, and causes cells to stop at G1 phase. The cytokine can induce apoptosis through both SMAD and DAXX pathways. In cancer cells, TGF- β signaling is altered and TGF- β no longer stops cell proliferation.

Applications:

Indirect ELISA: The antibody reacts with TGF- β .

Western Blotting: This antibody can detect 5ng/Lane TGF- β . The blot below was stained with HRP substrate 4-Chloro-1-naphthol and H₂O₂.

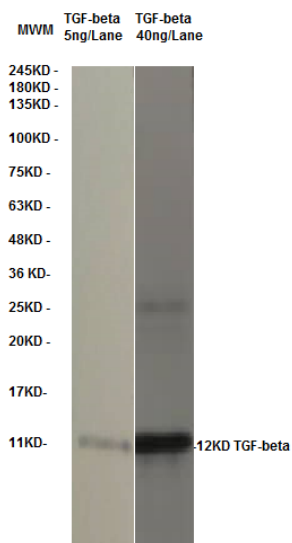
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References:

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