

DM1050**Monoclonal Antibody to TGFB1 - Azide Free****Alternate names:**

TGF-beta-1, TGFB, Transforming growth factor beta-1

Quantity:

0.5 mg

Background:

TGF beta 1 (Transforming Growth Factor Beta 1) is a multifunctional peptide capable of influencing cell proliferation, differentiation, and other functions in a wide range of cell types. Transformed as well as non neoplastic tissues, release transforming growth factors; and essentially all cells possess a specific TGF beta 1 receptor. The multimodal nature of TGF beta 1 is seen in its ability to stimulate or inhibit cellular proliferation. TGF beta 1 plays a fundamental role in tissue growth and differentiation involvement in adipogenesis, myogenesis, chondrogenesis, osteogenesis, epithelial cell differentiation and immune cell function.

The C-terminal 112 amino acids constitute the mature protein.

Uniprot ID:[P01137](#)**NCBI:**[NP_000651](#)**GeneID:**[7040](#)**Host / Isotype:**

Mouse / IgG1

Clone:

8C4

Immunogen:

TGF-beta from Human platelets.

Format:**State:** Lyophilized purified Ig fraction.**Purification:** Affinity Chromatography on Protein G.**Buffer System:** 0.01M PBS, pH 7.0 without preservatives.**Reconstitution:** Restore with Double distilled water to adjust the final concentration to 1.00 mg/ml.**Applications:****ELISA.**

Neutralizing Activity: This MAb neutralizes TGF beta activity *in vitro* in inhibition assay of CCL/64 cell growth and also neutralize the growth promoting action of TGF-beta in the NRK-49F colony forming assays. The effect of micro-injection of this MAb into one blastomere of two cell stage Xenopus embryos indicated that this MAb was able to neutralize effectively the bioactivity of TG beta *in vivo*.

Immunohistochemistry: May be used in immunohistochemical techniques to locate TGF-beta within tissues.

Western Blotting This antibody can detect 40ng/lane of human TGF-beta on Western Blot. The blot below was stained with HRP substrate 4-Chloro-1-naphthol and H2O2. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

Western blotting demonstrated that this TGF-beta antibody reacts to either dimeric (25 kDa) or monomeric (12.5 kDa) molecules of TGF-beta under non-reducing and reducing condition respectively.

Recognizes both Human platelet-derived and recombinant TGF beta in ELISA.

Storage:

Store lyophilized at 2-8°C for 6 months or at -20°C long term.
 After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.
 Avoid repeated freezing and thawing.
 Shelf life: one year from despatch.

Pictures:
