

Product datasheet for **DM1050**

TGF beta 1 (TGFB1) Mouse Monoclonal Antibody [Clone ID: 8C4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	8C4
Applications:	ELISA, FN, IHC
Recommended Dilution:	ELISA. Neutralizing Activity: This MAb neutralizes TGF beta activity <i>in vitro</i> 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 <i>Xenopus</i> embryos indicated that this MAb was able to neutralize effectively the bioactivity of TG beta <i>in vivo</i> . 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.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	TGF-beta from Human platelets.
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.
Formulation:	0.01M PBS, pH 7.0 without preservatives. State: Azide Free State: Lyophilized purified Ig fraction.
Reconstitution Method:	Restore with Double distilled water to adjust the final concentration to 1.00 mg/ml.
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Unconjugated



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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.
Stability:	Shelf life: one year from despatch.
Gene Name:	transforming growth factor beta 1
Database Link:	Entrez Gene 7040 Human P01137
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.
Synonyms:	TGFB, Transforming growth factor beta-1, TGF-beta-1
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Transcription Factors
Protein Pathways:	Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Cytokine-cytokine receptor interaction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, Renal cell carcinoma, TGF-beta signaling pathway

Product images:

