

## Product datasheet for **DM1045**

### TGF beta 1 (TGFB1) Mouse Monoclonal Antibody [Clone ID: 2C6]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	2C6
Applications:	ELISA, FN, IHC, WB
Recommended Dilution:	<b>ELISA.</b> <b>Western Blot:</b> MAb 2C6 at a concentration of 50-500 ng/mL will allow visualization of 100-500 ng/lane of TGF- $\beta$ . <b>Neutralization:</b> 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 TGF- $\beta$ <i>in vivo</i> . <b>Immunohistochemistry:</b> May be used in immunohistochemical techniques to locate TGF- $\beta$ within tissues.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	TGF- $\beta$ from human platelets
Specificity:	Western blotting demonstrated that this MAb reacts to either dimeric (25 kDa) or monomeric (12.5 kDa) molecules of TGF- $\beta$ under non-reducing and reducing condition respectively. This MAb recognizes both human platelet-derived and recombinant TGF- $\beta$ in enzyme-linked immunosorbent assay (ELISA).
Formulation:	0.01M PBS, pH 7.0 State: Azide Free State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with double distilled water to adjust the final concentration to 1.0 mg/ml.
Purification:	Protein G affinity purified
Conjugation:	Unconjugated



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<b>Storage:</b>	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.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	transforming growth factor beta 1
<b>Database Link:</b>	<a href="#">Entrez Gene 7040 Human P01137</a>
<b>Background:</b>	<p>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.</p> <p>The C-terminal 112 amino acids constitute the mature protein.</p>
<b>Synonyms:</b>	TGFB, Transforming growth factor beta-1, TGF-beta-1