

DESCRIPTION

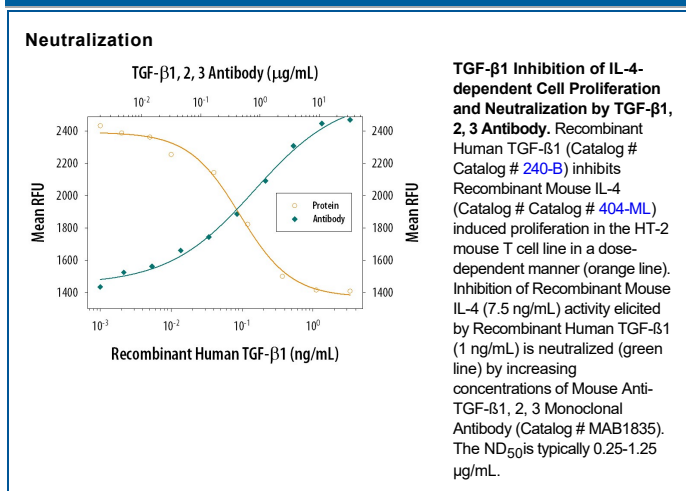
Specificity	Detects bovine, chicken, mouse, and human TGF-β in ELISAs and Western blots. It recognizes human TGF-β1, TGF-β2, and TGF-β3. No cross-reactivity was observed with recombinant LAP in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 1D11
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Bovine bone-derived TGF-β1 and TGF-β2
Endotoxin Level	<0.10 EU per 1 μg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	Recombinant Human TGF-β1 (Catalog # 240-B) under non-reducing conditions only
Human TGF-β1 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 μg/mL	TGF-β1, 2, 3 Antibody (Catalog # MAB1835)
ELISA Detection	0.1-0.4 μg/mL	TGF-β1 Biotinylated Antibody (Catalog # BAF240)
Standard		Recombinant Human TGF-β1 (Catalog # 240-B)
Neutralization		Measured by its ability to neutralize TGF-β1 inhibition of IL-4-dependent proliferation in the HT-2 mouse T cell line. Tsang, M. et al. (1990) Lymphokine Res. 9:607. The Neutralization Dose (ND ₅₀) is typically 0.25-1.25 μg/mL in the presence of 1 ng/mL Recombinant Human TGF-β1 and 7.5 ng/mL Recombinant Mouse IL-4.
Binding Inhibition		Dasch, J.R. et al. (1994) J. Immunol. 142:1536.

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

TGF- β 1, -2, and -3 are a closely related group of proteins (70-80% sequence homology) that are produced by many cell types and function as growth and differentiation factors. The active forms of TGF- β 1, -2, and -3 are disulfide-linked homodimers.

References:

1. Ayala A. *et al.* (1992) FASEB J. **6**:A1604.
2. Roberts A.B. and Sporn M.B., eds. (1990) Peptide Growth Factors and Their Receptors I, Springer-Verlag, 419.
3. Dasch J.R. *et al.* (1989) J. Immunol. **142**:1536.