TGF-β1, 2, 3 Antibody

Recombinant Monoclonal Mouse IgG_1 Clone # 1D11R

Catalog Number: MAB1835R

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.
Source	Recombinant Monoclonal Mouse IgG_1 Clone # 1D11R
Purification	Protein A or G purified from cell 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.

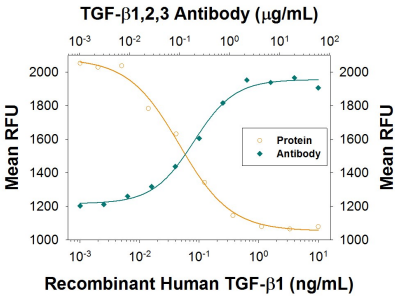
APPLICATIONS

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.*

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.

DATA

Neutralization



TGF-β1 Inhibition of IL-4-dependent Cell Proliferation and Neutralization by TGF-β1, 2, 3 Antibody. Recombinant Human TGF-β1 (Catalog # 240-B) inhibits Recombinant Mouse IL-4 (Catalog # 404-ML) induced proliferation in the HT-2 mouse T cell line in a dose-dependent manner (orange line). Inhibition of Recombinant Mouse IL-4 (7.5 ng/mL) activity elicited by Recombinant Human TGF-β1 (1 ng/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-TGF-β1, 2, 3 Monoclonal Antibody (Catalog # MAB1835R). The ND_{50} is typically0.25-1.25 µg/mL.Catalog # 240-B

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.** ● 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-β1, -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-β1, -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.

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