R&D SYSTEMS
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TGF-β3 Antibody

Monoclonal Mouse IgG_1 Clone # 44922

Catalog Number: MAB643

DESCRIPTION

Specificity	Detects TGF-β3 from multiple species in ELISAs and Western blots. In ELISAs, does not cross-react with recombinant human (rh) TGF-β1or rhTGF-β2.
Source	Monoclonal Mouse IgG_1 Clone # 44922
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant human TGF−β3 Ala301-Ser412 (Tyr340Phe) Accession # NP_003230.1
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 as a 0.2 µm filtered solution in PBS.

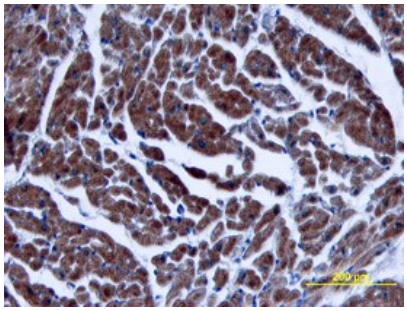
APPLICATIONS

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-β3 (Catalog # 243-B3) under non-reducing conditions only
Immunohistochemistry	8-25 µg/mL	See Below
Human TGF-β3 Sandwich Immunoassay		**Reagent**
ELISA Capture	2-8 µg/mL	TGF−β3 Antibody (Catalog # MAB643)
ELISA Detection	0.1-0.4 µg/mL	TGF−β3 Biotinylated Antibody (Catalog # BAF243)
Standard		Recombinant Human TGF−β3 (Catalog # 243-B3)

DATA

Immunohistochemistry



TGF-β3 in Human Heart. TGF-β3 was detected in immersion fixed paraffin-embedded sections of human heart using TGF-β3 Monoclonal Antibody (Catalog # MAB643) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

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

The active form of TGF-β3 is a disulfide-linked homodimer which is generated by activation of the latent TGF-β3 complex. TGF-βs are multifunctional cytokines that activate or repress multiple genes in a wide variety of cell types. Depending on the cell context, TGF-β can control many cellular processes including growth, morphogenesis, and apoptosis.

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