

Anti-TGF beta [1D11.16.8] Standard Size Ab03951-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted human IgG1 Fc Silent Fc Silent™ antibody, based on the original human IgG1 format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: 1D11.16.8

Alternative Name(s) of Target: TGF-β; TGFβ; TGFB1; TGFB2; TGFB3; TGF-B1; TGF-B2; TGF-B3; TGF beta 1; TGF beta 2; TGF beta 3; CED; DPD1; LAP; Latency-associated peptide; prepro-transforming growth factor beta-1; regulatory protein; transforming growth factor; transforming growth factor beta; 1D11.16; 1D11

UniProt Accession Number of Target Protein: P18341; P21214; A6QP91

Published Application(s): functional assay, IHC-P, IP, neutralize, WB, IHC

Published Species Reactivity: Cow, Dog, Hamster, Monkey, Rat, Human, Mouse

Immunogen: The original antibody was generated by intraperitoneally (IP) injecting female Balb/c mice with 10 µg of native bovine TGF-B2 with complete Freund's adjuvant.

Specificity: This antibody recognizes and binds human, mouse, rat, cow, dog, hamster, monkey and other non-human primate transforming growth factor (TGF) beta 1, 2 and 3. TGF beta is a multifunctional cytokine that exists as five isoforms (TGF beta 1-5) that share 70-80% homology with each other. These proteins are produced by many cell types and function as growth and differentiation factors.

Application Notes: This antibody was able to neutralize the biological activity of both TGF-beta 1 and beta 2 in vitro. This antibody could detect the dimeric form of TGF-beta 2 in western blots. This antibody was also reported to immunoprecipitate [125I]-TGF-beta 2 (PMID: 2537357). This antibody is also able to neutralize the growth promoting actions of TGF-B1 and B2 in the NRK proliferation assay and TGF-B induced alkaline phosphatase production in an assay using the ROS 17.2.8 osteosarcoma cell line (US5571714). This antibody was used for detection of TGF-β production in vivo in spleens sections of L. donovani-infected hamsters using immunohistochemistry (PMID: 9488418). This antibody was also used for the immunohistochemical analysis of FFPE human renal biopsy specimens for presence of TGF-beta (PMID: 10515378).

Antibody First Published in: Dasch et al. Monoclonal antibodies recognizing transforming growth factor-beta. Bioactivity neutralization and transforming growth factor beta 2 affinity purification. J Immunol. 1989 Mar 1;142(5):1536-41.

[PMID:2537357](#)

Note on publication: Describes the generation and characterization of 4 antibodies against TGF beta.

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.