

Basic Information

Product Name	Anti-TGF Beta 1/TGFB1 Antibody (Clone#OTI3B6)
Gene Name	TGFB1
Source	Mouse
Isotype	IgG2a
Species Reactivity	human, mouse, rat
Tested Application	WB, IF
Contents	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Immunogen	Full length human recombinant protein of human TGFB1(NP_000651) produced in HEK293T cell.
concentration	500 ug/ml
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Observed MW	28.4KD
Dilution Ratios	Western blot (WB): 1:2000 Immunofluorescence (IF):1:100

Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

Background Information

This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGFB family members. This encoded protein regulates cell proliferation, differentiation and growth, and can modulate expression and activation of other growth factors including interferon gamma and tumor necrosis factor alpha. This gene is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann disease.

Selected Validation Data

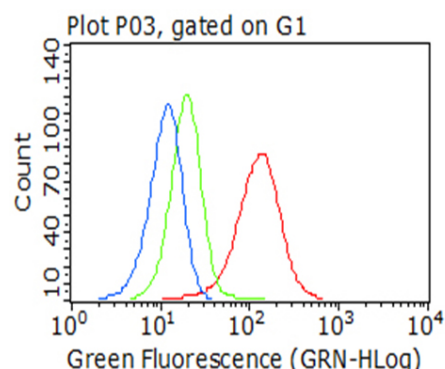


Figure 1. Flow cytometric Analysis of permeabilized Hela cells, using anti-TGFB1 antibody, (Red), compared to an IgG isotype control, (green), and negative control (PBS), (Blue) (1:100).