

Product datasheet for **CF506585**

TGF beta 1 (TGFB1) Mouse Monoclonal Antibody [Clone ID: OTI1E12]

Product data:

| | |
|-------------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | OTI1E12 |
| Applications: | FC, IF, WB |
| Recommended Dilution: | WB 1:1000, IF 1:100, FLOW 1:50 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Full length human recombinant protein of human TGFB1(NP_000651) produced in HEK293T cell. |
| Formulation: | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose) |
| Reconstitution Method: | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 44 kDa |
| Gene Name: | transforming growth factor beta 1 |
| Database Link: | NP_000651 Entrez Gene 21803 Mouse Entrez Gene 59086 Rat Entrez Gene 7040 Human P01137 |



[View online »](#)

Background:

This gene encodes a member of the transforming growth factor beta (TGFB) family of cytokines, which are multifunctional peptides that regulate proliferation, differentiation, adhesion, migration, and other functions in many cell types. Many cells have TGFB receptors, and the protein positively and negatively regulates many other growth factors. The secreted protein is cleaved into a latency-associated peptide (LAP) and a mature TGFB1 peptide, and is found in either a latent form composed of a TGFB1 homodimer, a LAP homodimer, and a latent TGFB1-binding protein, or in an active form composed of a TGFB1 homodimer. The mature peptide may also form heterodimers with other TGFB family members. This gene is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann disease. [provided by RefSeq, Oct

Synonyms:

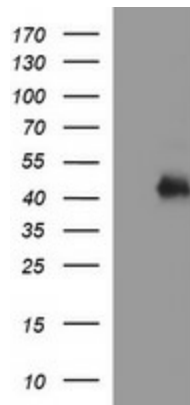
CED; DPD1; LAP; TGFB; TGFbeta

Protein Families:

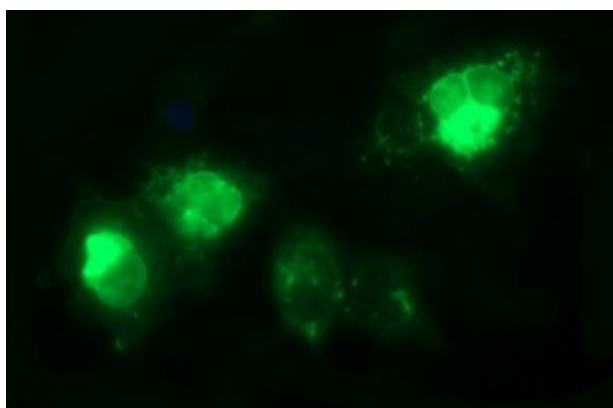
Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Transcription Factors

Protein Pathways:

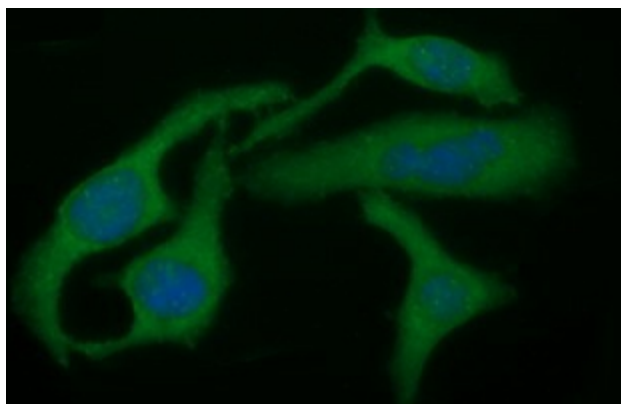
Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Cytokine-cytokine receptor interaction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, Renal cell carcinoma, TGF-beta signaling pathway

Product images:

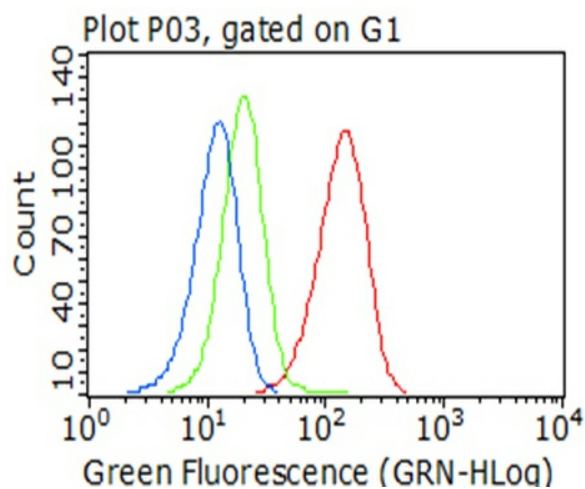
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TGFB1 ([RC200973], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TGFB1 (1:1000).



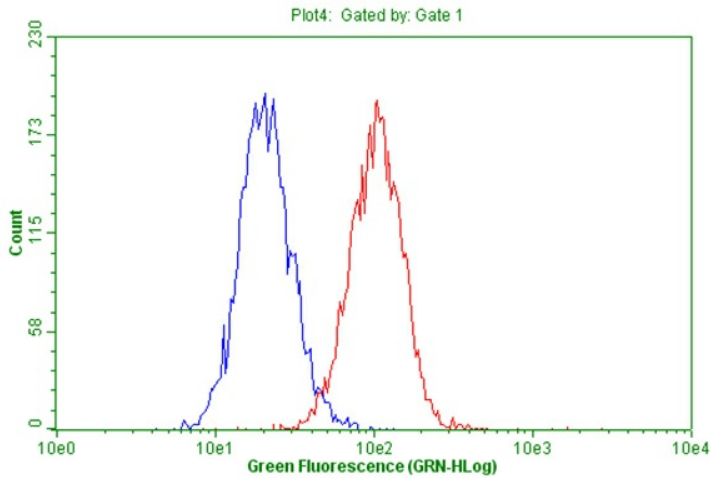
Anti-TGFB1 mouse monoclonal antibody ([TA506585]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY TGFB1 ([RC200973]) (1:100).



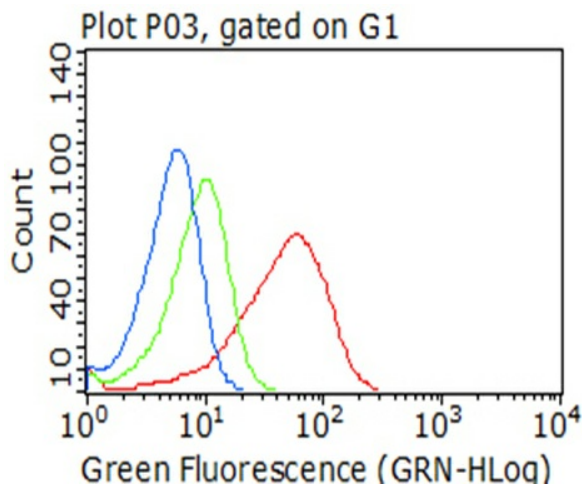
Immunofluorescent staining of HeLa cells using anti-TGFB1 mouse monoclonal antibody ([TA506585]) (1:100).



Flow cytometric Analysis of permeabilized HeLa cells, using anti-TGFB1 antibody ([TA506585]), (Red), compared to an IgG isotype control, (green), and negative control (PBS), (Blue) (1:100).



Flow cytometric Analysis of living SF295 cells, using anti-TGFB1 antibody ([TA506585]), (Red), compared to a nonspecific negative control antibody, (Blue) (1:50).



Flow cytometric Analysis of permeabilized HCT116 cells, using anti-TGFB1 antibody ([TA506585]), (Red), compared to an IgG isotype control, (green), and negative control (PBS), (Blue) (1:100).