For Research Use Only

NeutraControl TGF beta 1 Monoclonal antibody, PBS Only Catalog Number:69512-1-PBS

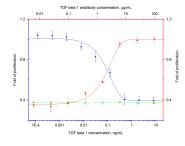


Basic Information	Catalog Number: 69512-1-PBS Concentration: 1 mg/ml Source: Mouse Isotype: IgG1 Immunogen Catalog Number: HZ-1011	GenBank Accession Number: GeneID (NCBI): 7040 Full Name: transforming growth factor, beta 1 Calculated MW: 44 kDa	Purification Method: Protein A purification CloneNo.: 1D3D11
Applications	Tested Applications: IF/ICC, ELISA, Non-Neutralization Species Specificity: human		
Background Information	TGFB, also named as LAP and TGFB1, is a multifunctional peptide that controls proliferation, differentiation, and other functions in many cell types. TGFB acts synergistically with TGFA in inducing transformation. It also acts as a negative autocrine growth factor. Dysregulation of TGFB activation and signaling may result in apoptosis. Many cells synthesize TGFB and almost all of them have specific receptors for it. TGFB positively and negatively regulates many other growth factors. It plays an important role in bone remodeling as it is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts. It is highly expressed in bone. Mutation of TGFB are the cause of Camurati-Engelmann disease (CED) which known as progressive diaphyseal dysplasia 1 (DPD1).		
Storage	Storage: Store at -80°C. The product is shipped with ice pack Storage Buffer: PBS Only, pH7.4	s. Upon receipt, store it immediately a	t -80°C

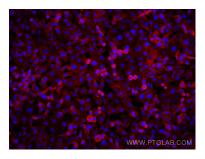
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

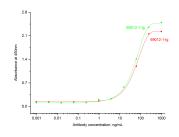
Selected Validation Data



Recombinant human TGF beta 1 (Cat.NO. HZ-1011) inhibits IL-4 induced proliferation of mouse HT-2 cells in a dose dependent nammer (blue curve, refer to bottom X-left Y). The activity of human TGF beta 1 (0.5 ng/mL HZ-1011) is neutralized by mouse anti-human TGF beta 1 antibody 69012-1-1g at serial dose (red curve, refer to top X-right Y). The ND50 is typically 1-5 µ g/mLThe NeutraControl mouse anti-human TGF beta 1 monoclonal antibody 69512-1-1g could recognize human



Immunofluorescent analysis of (4% PFA) fixed HT-1080 cells using NeutraControl TGF beta 1 antibody (69512-1-lg, Clone: 1D3D11) at dilution of 1:3963 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004). This data was developed using the same antibody clone with 69512-1-PBS in a different storage buffer formulation.



Indirect ELISA was carried out by coating recombinant Human TGF beta 1 (Cat.NO. HZ-1011) at 70 ng/well followed by blocking and adding serial diluted TGF beta 1 antibody 69012-1-lg and 69512-1-lg respectively. Signal was developed with TMB and stopped by H2SO4. Signal strength was measured by absorbance at 450 nm. This data was developed using the same antibody clone with 69512-1-PBS in a different storage buffer formulation.