

InVivoPro Anti-Mouse TGF- β *in vivo* antibody, Clone 1D11.16.8

Cat #: IV0142

Size: 1mg, 5mg, 25mg, 50mg, 100mg

Product Information

Isotype:	Mouse IgG1 κ
Reactivity:	Mouse
Formulation:	PBS, pH 7.2, contains no stabilizers or preservatives
Concentration:	Lot specific
Applications:	<i>In vivo</i> TGF β neutralization, <i>in vitro</i> TGF β neutralization
Recommended Isotype Control:	Mouse IgG1 Isotype Control
Endotoxin:	≤ 1.0 EU/mg, by the LAL method
Purity:	99%
Sterility:	0.2 μ M filtered
Purification:	Protein A or G
Recommended Dose Range:	Each investigator should determine their own optimal working dilution for specific applications.
Storage:	This antibody is stable for at least 2 months when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at -20°C or -80°C. Avoid repeated freeze thaw cycles.

Background

TGF- β is a multifunctional cytokine that regulates the proliferation of epithelial cells, endothelial cells, fibroblasts, neurons, lymphoid cells including T lymphocytes and NK cells, and other hematopoietic cell types. TGF- β also regulates the activities of activated macrophages and the development of regulatory T cells. Additionally, TGF- β plays roles in immune function, tissue remodeling and wound repair. TGF- β exists as five highly similar isoforms (TGF- β 1-5) with homologies of 70-80%. TGF- β 1 is synthesized by the enzymatic cleavage of a long precursor TGF- β 1 polypeptide encoded by the TGFB1 gene which yields the mature protein and the Latency Associated Peptide (LAP). The LAP and mature TGF- β 1 non-covalently associate during secretion. TGF- β is ubiquitously expressed by many cell types including macrophages and platelets which express high levels of TGF- β . TGF- β signaling has been shown to play roles in cancer, autoimmune diseases, asthma, heart disease, and diabetes. Its importance is illustrated by TGF- β knockout mice which show defects in hematopoiesis and endothelial differentiation, and die of overwhelming inflammation. The 1D11.16.8 monoclonal antibody reacts with mouse TGF- β (transforming growth factor beta) isoforms 1, 2 and 3.

Note: The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.