TGFβ1 Mouse mAb (8F6)

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Swiss-Prot No.:	P01137
Alternname:	TGFB1
Storage/Stability:	Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Immunogen:	Synthetic peptide conjugated to KLH.
Purification:	Affinity purified
Reactivity:	Human,Rat,Mouse
Other Names:	TGF beta 1, TGFB, CED, LAP
Background:	Multifunctional protein that controls proliferation, differentiation and other functions in many cell types. Many cells synthesize TGFB1 and have specific receptors for it. It 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 . Stimulates sustained production of collagen through the activation of CREB3L1 by regulated intramembrane proteolysis (RIP) (PubMed:25310401). Can promote either T-helper 17 cells (Th17) or regulatory T-cells (Treg) lineage differentiation in a concentration-dependent manner. At high concentrations, leads to FOXP3-mediated suppression of RORC and down-regulation of IL-17 expression, favoring Treg cell development.

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	At low concentrations in concert with IL-6 and IL-21, leads to expression of the IL-17 and IL-23 receptors, favoring differentiation to Th17 cells. Mediates SMAD2/3 activation by inducing its phosphorylation and subsequent translocation to the nucleus (PubMed:25893292). Can induce epithelial-to-mesenchymal transition (EMT) and cell migration in various cell types (PubMed:25893292).
Gene ID:	7040
Cellular localization:	Extracellular matrix, Secreted
Source:	Mouse
Antibody type:	Monclonal antibody
Isotype:	IgG1
Molecular Weight:	12,25,45-65kDa
Preservative:	PBS(pH 7.4) containing with 0.02% sodium azide and 50% glycerol.
Recommended Dilutions:	WB 1:1000-2000 IHC 1:100-200 (Optimal dilutions should be determined by the end user)
Clone Number:	8F6-3G10-4G9
Form of Antibody:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.