TGF beta 1 (4C1) Mouse mAb

db6543 **Package：50μL 100μL**

Product Name : TGF beta 1 (4C1) Mouse mAb
Cat.No.: db6543
Synonyms : TGF beta 1; TGFB; CED; LAP
Application : IHC-P
Reactivity : Human, Rat, Mouse
Host species : Mouse

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. 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).
Immunogen	Synthetic peptide conjugated to KLH
Gene ID	7040
Swiss Prot	P01137
Synonyms	TGF beta 1; TGFB; CED; LAP
Reactivity	Human, Rat, Mouse
Application	IHC-P
Recommended dilution	IHC: 1:50-1:100
Host species	Mouse
Clonality	Monoclonal
Clonality No.	4C1-8C8-1E7

Isotype	IgG1
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA . Stable for 12 months from date of receipt.

- Immunohistochemistry analysis of paraffin-embedded rat Brain Tissue using TGF beta 1 (4C1) antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.
- Immunohistochemical analysis of paraffin-embedded Human tonsils using TGF beta 1 (4C1) antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.
- Immunohistochemistry analysis of paraffin-embedded mouse Lung Tissue using TGF beta 1 (4C1) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.