



TGF beta 1 (7C9) Mouse mAb

db6541 Package : 50μL 100μL

Product Name: TGF beta 1 (7C9) Mouse mAb

Cat.No.: db6541

Synonyms: TGF beta 1; TGFB; CED; LAP

Application: IHC-P **Reactivity**: Mouse, Rat **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 Mouse, Rat

Application IHC-P

Recommended dilution IHC: 1:50-1:100

Host species Mouse

Clonality Monoclonal

Clonality No. 7C9-8D7-5G1



For Research Use Only **Product Datasheet**

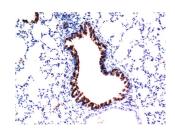
Isotype IgG1

Purity Affinity Purification

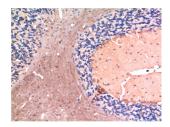
Conjugation Un-conjugated

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 mouse Lung Tissue using TGF beta 1 (7C9) 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 (7C9) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.