

TGFB1 / TGF Beta 1 Antibody Mouse Monoclonal Antibody Catalog # ALS16665

Specification

TGFB1 / TGF Beta 1 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Calculated MW Dilution WB, IHC-P, E, Neut <u>P01137</u> <u>7040</u> Human Mouse Monoclonal IgG1,k 44325 WB~~1:1000 IHC-P~~N/A E~~N/A Neut~~N/A

TGFB1 / TGF Beta 1 Antibody - Additional Information

Gene ID 7040

Other Names

TGFB1, CED, DPD1, Diaphyseal dysplasia 1, LAP, Latency-associated peptide, TGF Beta, TGFbeta, TGF-beta 1 protein, TGF-beta-1, TGFB

Target/Specificity Western Blot analysis demonstrates that This antibody reacts to either dimeric (25kD) or monomeric (12.5kD) molecules of TGF-b under non-reducing and reducing condition, respectively. Recognizes both human platelet-derived and recombinant TGF-b by ELISA.

Reconstitution & Storage PBS, pH 7.0. Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions TGFB1 / TGF Beta 1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TGFB1 / TGF Beta 1 Antibody - Protein Information

Name TGFB1 (<u>HGNC:11766</u>)

Synonyms TGFB

Function

Transforming growth factor beta-1 proprotein: Precursor of the Latency-associated peptide (LAP) and Transforming growth factor beta-1 (TGF-beta-1) chains, which constitute the regulatory and



active subunit of TGF-beta-1, respectively.

Cellular Location

[Latency-associated peptide]: Secreted, extracellular space, extracellular matrix

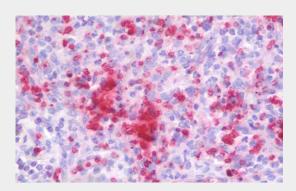
Tissue Location Highly expressed in bone (PubMed:11746498, PubMed:17827158). Abundantly expressed in articular cartilage and chondrocytes and is increased in osteoarthritis (OA) (PubMed:11746498, PubMed:17827158). Colocalizes with ASPN in chondrocytes within OA lesions of articular cartilage (PubMed:17827158)

TGFB1 / TGF Beta 1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

TGFB1 / TGF Beta 1 Antibody - Images



Anti-TGFB1 / TGF Beta 1 antibody IHC staining of human spleen.

TGFB1 / TGF Beta 1 Antibody - 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.

TGFB1 / TGF Beta 1 Antibody - References

Derynck R., et al. Nucleic Acids Res. 15:3188-3189(1987). Derynck R., et al. Nature 316:701-705(1985). Kalnine N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases. Ota T., et al. Nat. Genet. 36:40-45(2004). Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

