

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

TGFB1 / TGF Beta 1 Antibody - Product Information

Application	IHC
Primary Accession	P01137
Other Accession	7040
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,k
Calculated MW	44325

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 ([HGNC:11766](#))**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

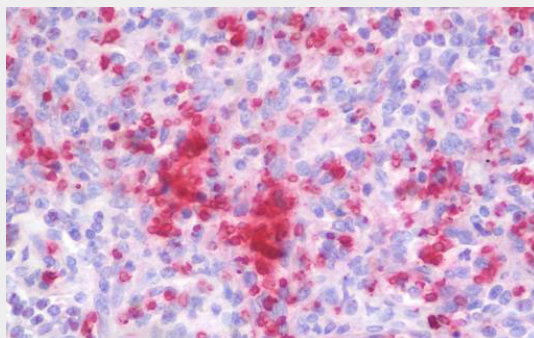
Tissue Location

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.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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).
Kalinine 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.