

Anti-TGF-b1 Antibody (3D9)

Mouse Monoclonal Antibody

Catalog # ABV12069

Product Information

Application	WB
Primary Accession	P01137
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1κ
Clone Names	3D9
Calculated MW	44325

Additional Information

Gene ID	7040
Application & Usage	WB: HepG2 cell lysate
Other Names	Transforming growth factor beta-1, TGF-beta-1, TGFB
Target/Specificity	TGF-b1
Antibody Form	Liquid
Appearance	Colorless liquid
Formulation	In phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol and 0.02% sodium azide.
Handling	The antibody solution should be gently mixed before use.
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	Anti-TGF-b1 Antibody (3D9) is for research use only and not for use in diagnostic or therapeutic procedures.

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

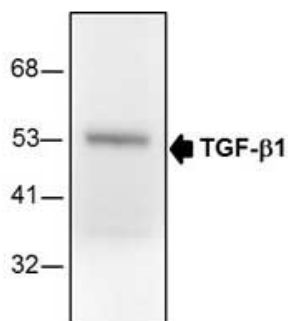
Tissue Location

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)

Background

TGF-β1 (transforming growth factor-beta) is a 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. It also stimulates sustained production of collagen through the activation of CREB3L1 by regulated intramembrane proteolysis.

Images



Western blot analysis of TGF-β1 in HepG2 cell lysate using IUh-fi* AntiDoay

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.