

# TGF beta 1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51556

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">P01137</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	44325

## Additional Information

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<b>Gene ID</b>	7040
<b>Other Names</b>	Transforming growth factor beta-1, TGF-beta-1, Latency-associated peptide, LAP, TGFB1, TGFB
<b>Target/Specificity</b>	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human TGF beta 1. The exact sequence is proprietary.
<b>Dilution</b>	WB~~ 1:1000
<b>Format</b>	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
<b>Storage</b>	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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<b>Name</b>	TGFB1 ( <a href="#">HGNC:11766</a> )
<b>Synonyms</b>	TGFB
<b>Function</b>	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.
<b>Cellular Location</b>	[Latency-associated peptide]: Secreted, extracellular space, extracellular matrix
<b>Tissue Location</b>	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

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Multifunctional protein that controls proliferation, differentiation and other functions in many cell types. Many cells synthesize TGF $\beta$ 1 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.

## References

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Derynck R.,et al.Nucleic Acids Res. 15:3188-3189(1987).

Derynck R.,et al.Nature 316:701-705(1985).

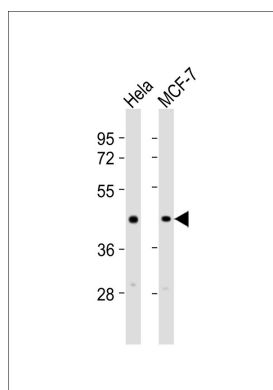
Kalnina N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

## Images

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All lanes : Anti-TGF beta 1 Antibody at 1:1000 dilution  
Lane 1: HeLa whole cell lysates Lane 2: MCF-7 whole cell lysates  
Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution  
Predicted band size : 44 kDa  
Blocking/Dilution buffer: 5% NFDM/TBST.

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