

**TGFB1 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21052a****Specification**

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**TGFB1 Antibody - Product Information**

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

**TGFB1 Antibody - Additional Information****Gene ID** 7040**Other Names**

Transforming growth factor beta-1, TGF-beta-1, Latency-associated peptide, LAP, TGFB1, TGFB

**Target/Specificity**

This TGFB1 antibody is generated from a rabbit immunized with a recombinant protein of human TGFB1.

**Dilution**

WB~~1:2000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

TGFB1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**TGFB1 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

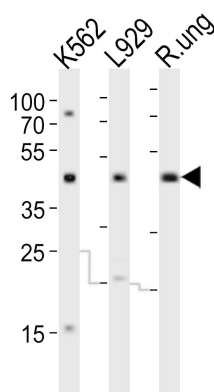
Highly expressed in bone (PubMed:11746498, PubMed:17827158). Abundantly expressed in articular cartilage and chondrocytes and is increased in osteoarthritis (OA) (PubMed:11746498, PubMed:17827158). Colocalizes with ASPN in chondrocytes within OA lesions of articular cartilage (PubMed:17827158)

#### TGFB1 Antibody - Protocols

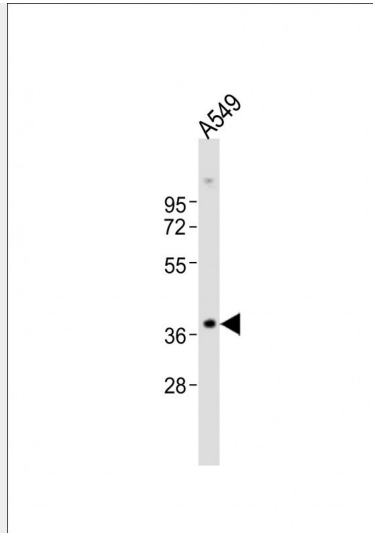
Provided below are standard protocols that you may find useful for product applications.

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

#### TGFB1 Antibody - Images



Western blot analysis of lysates from K562, L929 cell line and rat lung tissue(from left to right), using TGFB1 Antibody(Cat. #AP21052a). AP21052a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



Anti-TGFB1 Antibody at 1:2000 dilution + A549 whole cell lysates Lysates/proteins at 20 µg 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.

#### **TGFB1 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 Antibody - References**

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.