

**TGF beta1 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1059a**

**Specification**

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**TGF beta1 Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P01137</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG2a</b>

**Description**

TGF beta(transforming growth factor beta), with 390-amino acid protein (about 43 kDa), is a multifunctional peptide that controls proliferation, differentiation, and other functions in many cell types. In mammals, three isoforms of TGFbeta, that is, beta1, beta2,and beta3,are known. TGF beta is one of numerous inhibitory factors produced by cancer cells that regulate antitumor immunity. TGF beta1 takes part in the local response in the course of primary lung cancer and TGFbeta1 is thought to be implicated in breast cancer progression.TGFbeta1 also plays a critical role in the downregulation of microglial responses minimizing brain inflammation and thus avoiding exacerbation of brain damage.

**Immunogen**

Purified recombinant fragment of TGF beta1 expressed in E. Coli. <br /> <br />

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**TGF beta1 Antibody - Additional Information**

**Gene ID** 7040

**Other Names**

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

**Dilution**

WB~~1/500 - 1/2000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

TGF beta1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**TGF beta1 Antibody - Protein Information**

**Name** TGF $\beta$ 1 ([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)

**TGF beta1 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](#)

**TGF beta1 Antibody - Images**

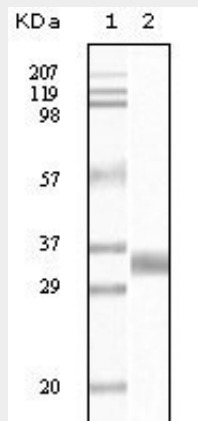


Figure 1: Western blot analysis using TGF beta1 mouse mAb against truncated TGF beta1 recombinant protein.

**TGF beta1 Antibody - References**

1. Delphine Boche, Colm Cunningham, Fabian Docagne. Neurobiol Dis. 2006 Feb 27
2. Shizuya Saika. Lab Invest. 2006 Feb;86(2):106-15