

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

TGF beta1 Antibody - Product Information

Application	WB
Primary Accession	P01137
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a

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.

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 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)

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

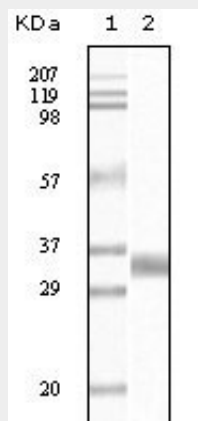


Figure 1: Western blot analysis using TGF beta1 mouse mAb against truncated TGF beta1 recombinant protein.

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