

TGF-beta (Transforming Growth Factor beta) Antibody - With BSA and Azide
Mouse Monoclonal Antibody [Clone 1D11.16.8]
Catalog # AH12405

Specification

TGF-beta (Transforming Growth Factor beta) Antibody - With BSA and Azide - Product Information

Application	''
Primary Accession	P01137
Other Accession	7040 (beta1) , 7042 (beta2) , 7043 (beta3) , 645227 , P10600 (beta2) , P61812 (beta3)
Reactivity	Human, Mouse, Hamster, Monkey, Bovine, Dog
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Calculated MW	13kDa kDa

TGF-beta (Transforming Growth Factor beta) Antibody - With BSA and Azide - Additional Information

Gene ID 7040

Other Names

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

Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions

TGF-beta (Transforming Growth Factor beta) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

TGF-beta (Transforming Growth Factor beta) Antibody - With BSA and Azide - 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-beta (Transforming Growth Factor beta) Antibody - With BSA and Azide - 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-beta (Transforming Growth Factor beta) Antibody - With BSA and Azide - Images**TGF-beta (Transforming Growth Factor beta) Antibody - With BSA and Azide - Background**

This MAb recognizes TGF beta 1, 2 and 3. Three TGF β s have been identified in mammals. TGF β 1, TGF β 2 and TGF β 3 are each synthesized as precursor proteins that are very similar in that each is cleaved to yield a 112 amino acid polypeptide that remains associated with the latent portion of the molecules. Biologically active TGF β requires dimerization of the monomers (usually homodimers) and release of the latent peptide portion. Overall, the mature region of the TGF β 3 protein has approximately 80% identity to the mature region of both TGF β 1 and TGF β 2. However, the NH2 terminals or precursor regions of their molecules share only 27% sequence identity. TGF β s inhibit the growth of epithelial cells and stimulate the growth of mesenchymal cells.

TGF-beta (Transforming Growth Factor beta) Antibody - With BSA and Azide - References

Dasch JR, Pace DR, Waegell W, Inenaga D, Ellingsworth L. Monoclonal antibodies recognizing transforming growth factor-beta. Bioactivity neutralization and transforming growth factor beta 2 affinity purification. J Immunol. 1989 Mar 1;142(5):1536-41