abcam

Product datasheet

Anti-TGF beta 1 antibody [TB21] ab190503

30 References 1 Image

Overview

Product name Anti-TGF beta 1 antibody [TB21]

Description Mouse monoclonal [TB21] to TGF beta 1

Host species Mouse

Specificity ab190503 recognizes both human platelet-derived and recombinant TGF beta1 in enzyme-linked

immunosorbent assay (ELISA). Mouse anti-Human TGF beta antibody, clone TB21 demonstrates neutralising activity against TGF beta1 in cell proliferation assays. Mouse anti Human TGF beta antibody, clone TB21 has been demonstrated to react with dimeric (25kD) or monomeric (12.5kD) molecules of natural TGF beta1 under non-reducing and reducing conditions

respectively.

Tested applications Suitable for: IHC-P

Species reactivity Reacts with: Human

Predicted to work with: Horse, Guinea pig, Dog, Pig

Immunogen Full length native protein (purified) corresponding to Human TGF beta 1 aa 250 to the C-terminus.

purified from platelets.

Database link: **P01137**

Positive control Human breast carcinoma and brain tissues.

General notesThe Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

Run BLAST with

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

Storage buffer Preservative: 0.09% Sodium azide

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Constituent: 99% PBS

Purity Protein G purified

Clonality Monoclonal

Clone number TB21

Myeloma Sp2/0-Ag14

lsotype lgG1

Applications

Target

The Abpromise guarantee

Our Abpromise guarantee covers the use of ab190503 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. ab190503 has been used successfully on FFPE tissues without pretreatment. Citrate pH6.0, EDTA pH8.0 or pepsin mediated antigen retrieval have also been used.

Function	Multifunctional protein that controls proliferation, differentiation and other functions in many cell
Function	Multifulctional protein that controls profileration, unferentiation 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.

Tissue specificityHighly expressed in bone. Abundantly expressed in articular cartilage and chondrocytes and is increased in osteoarthritis (OA). Co-localizes with ASPN in chondrocytes within OA lesions of

articular cartilage.

Involvement in disease Defects in TGFB1 are the cause of Camurati-Engelmann disease (CE) [MIM:131300]; also

known as progressive diaphyseal dysplasia 1 (DPD1). CE is an autosomal dominant disorder characterized by hyperostosis and sclerosis of the diaphyses of long bones. The disease typically presents in early childhood with pain, muscular weakness and waddling gait, and in some cases other features such as exophthalmos, facial paralysis, hearing difficulties and loss of vision.

Sequence similaritiesBelongs to the TGF-beta family.

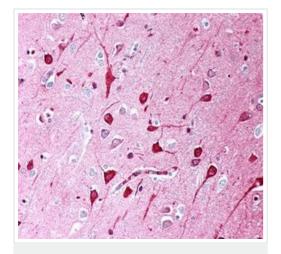
Post-translational Glycosylated.

modifications The precursor is cleaved into mature TGF-beta-1 and LAP, which remains non-covalently linked to

mature TGF-beta-1 rendering it inactive.

Cellular localization Secreted > extracellular space > extracellular matrix.

Images



Immunohistochemical analysis of Human brain tissue labeling TGF beta with ab190503.

[TB21] (ab190503)

Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-TGF beta 1 antibody

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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