

Datasheet: AHP1734

Description:	RABBIT ANTI HUMAN TGF BETA
Specificity:	TGF BETA
Other names:	TRANSFORMING GROWTH FACTOR BETA
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin (1)	▪			5ug/ml
ELISA	▪			1/2000 - 1/10000
Western Blotting	▪			1/200 - 1/1000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Species Cross Reactivity	Reacts with: Rabbit, Mouse, Rat Based on sequence similarity, is expected to react with: Mammals N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to Human TGF-beta1 were raised by repeated immunisation of Rabbits with highly purified antigen. Purified IgG prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.4 mg/ml.
Immunogen	A synthetic peptide corresponding to amino acids 286-293 of the human TGF-beta precursor

protein.

**External Database
Links**

UniProt:

[P01137](#) [Related reagents](#)

Entrez Gene:

[7040](#) TGFB1 [Related reagents](#)

Synonyms

TGFB

Specificity

Rabbit anti Human TGF beta antibody recognizes human Transforming Growth Factor Beta 1 (TGF-beta1), a 390 amino acid secreted protein belonging to the TGF-beta family.

TGF-beta1 is a multifunctional protein that controls proliferation, differentiation and other functions in a wide range of cell types and both positively and negatively regulates many other growth factors. TGF-beta1 also plays an important role in bone remodelling through stimulation of osteoblastic bone formation causing chemotaxis, proliferation and differentiation in committed osteoblasts.

Defects in TGFB1 are the cause of Camurati-Engelmann disease (CED), also known as progressive diaphyseal dysplasia 1 ([Kinoshita *et al.* 2000](#)).

**Histology Positive
Control Tissue**

Human spleen

References

1. Polichnowski, A.J. *et al.* (2014) Severe Renal Mass Reduction Impairs Recovery and Promotes Fibrosis after AKI. [J Am Soc Nephrol. 25: 1496-1507.](#)
 2. Moore, L.B. *et al.* (2015) Loss of monocyte chemoattractant protein-1 alters macrophage polarization and reduces NFκB activation in the foreign body response. [Acta Biomater. 11: 37-47.](#)
 3. Geng, H. *et al.* (2012) Lysophosphatidic acid increases proximal tubule cell secretion of profibrotic cytokines PDGF-B and CTGF through LPA2- and Gαq-mediated Rho and αvβ6 integrin-dependent activation of TGF-β. [Am J Pathol. 181: 1236-49.](#)
 4. Tark, K.C. *et al.* (2015) Effects of ginsenoside Rb1 on hypertrophic scar remodeling in rabbit model. [Eur J Pharmacol. 750C: 151-59.](#)
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Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10094 available at:
10094: <https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR54...) [HRP](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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