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

**RRID** AB_2222443

**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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunohistology - Paraffin (1)</td>
<td>5µg/ml</td>
</tr>
<tr>
<td>ELISA</td>
<td>1/2000 - 1/10000</td>
</tr>
<tr>
<td>Western Blotting</td>
<td>1/200 - 1/1000</td>
</tr>
</tbody>
</table>

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 (NaN₃)

**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

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.

Guarantee
18 months from date of despatch.

Health And Safety Information
Material Safety Datasheet documentation #10094 available at:

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)**