

## Product datasheet

# Anti-TGF beta 1 antibody ab25121

9 References [画像数 1](#)

### 製品の概要

<b>製品名</b>	Anti-TGF beta 1 antibody
<b>製品の詳細</b>	Rabbit polyclonal to TGF beta 1
<b>由来種</b>	Rabbit
<b>特異性</b>	Full length, inactive 44 kD TGFB1 is cleaved into mature TGFB1 (13 kD). TGFB1 also homodimerizes and heterodimerizes with TGFB2, so there is potential for multiple different band sizes in WB.
<b>アプリケーション</b>	<b>適用あり:</b> IHC-P, WB
<b>種交差性</b>	<b>交差種:</b> Mouse, Rat, Pig
<b>免疫原</b>	Recombinant fragment corresponding to Pig TGF beta 1 aa 280-391. Sequence:  SDYHEHGSLFDYLNRYTVTVEGMIKLALSTASGLAHLHMEIVGTQGKPAI AHRDLKSKNILVKKNGTCCCIADLGLAVRHDSATDTIDIAPNHRVGTKRYM APEVLDDSDINMK  Database link: <a href="#">Q5CD18</a>  <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>ポジティブ・コントロール</b>	IHC-P: Mouse skin FFPE tissue sections.

### 製品の特性

<b>製品の状態</b>	Liquid
<b>保存方法</b>	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.
<b>バッファー</b>	Preservative: 0.05% Sodium azide Constituent: PBS
<b>精製度</b>	Protein A purified
<b>ポリモノ</b>	ポリクローナル
<b>アイソタイプ</b>	IgG

### アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab25121** in the following tested applications.

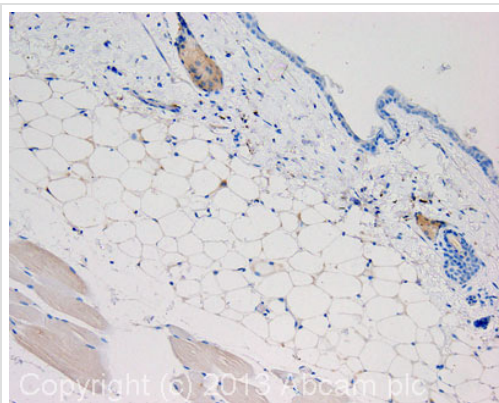
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/2000. Predicted molecular weight: 44 kDa. 44 kDa for the unprocessed precursor; 25 kDa for the mature protein. Full length, inactive 44 kD TGFB1 is cleaved into mature TGFB1 (13 kD). TGFB1 also homodimerizes and heterodimerizes with TGFB2, so there is potential for multiple different band sizes in WB.

## ターゲット情報

機能	Multifunctional protein that controls proliferation, differentiation 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.
組織特異性	Highly 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.
関連疾患	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.
配列類似性	Belongs to the TGF-beta family.
翻訳後修飾	Glycosylated. The precursor is cleaved into mature TGF-beta-1 and LAP, which remains non-covalently linked to mature TGF-beta-1 rendering it inactive.
細胞内局在	Secreted > extracellular space > extracellular matrix.

## 画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TGF beta 1 antibody (ab25121)

IHC image of TGF beta 1 staining in mouse skin formalin fixed paraffin embedded tissue section, performed on a Leica Bond system using the standard protocol B. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab25121, 5µg/ml, for 15 mins at room temperature. A goat anti-rabbit biotinylated secondary antibody was used to detect the primary, and visualized using an HRP conjugated ABC system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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