


### Anti-TGFBI antibody [EPR12078(B)] ab170874

リコンビナント RabMAb

★★★★★ **5 Abreviews** **27 References** 画像数 5

#### 製品の概要

製品名	Anti-TGFBI antibody [EPR12078(B)]
製品の詳細	Rabbit monoclonal [EPR12078(B)] to TGFBI
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, ICC/IF, IHC-P <b>適用なし:</b> IP
種交差性	<b>交差種:</b> Human <b>交差が予測される動物種:</b> Mouse, Rat 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	Human fetal kidney and Human fetal liver lysates, Human colon tissue and Human uterus tissue, Y79 cells
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### 製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名                   EPR12078(B)  
 アイソタイプ                IgG

アプリケーション

The Abpromise guarantee       **Abpromise保証は、次のテスト済みアプリケーションにおけるab170874の使用に適用されず**  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (1)	1/1000 - 1/5000. Predicted molecular weight: 75 kDa.
ICC/IF		1/50 - 1/100.
IHC-P	★★★★★ (2)	1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

追加情報                        Is unsuitable for IP.

ターゲット情報

**機能**                            Binds to type I, II, and IV collagens. This adhesion protein may play an important role in cell-collagen interactions. In cartilage, may be involved in endochondral bone formation.

**組織特異性**                 Highly expressed in the corneal epithelium.

**関連疾患**                    Defects in TGFBI are the cause of epithelial basement membrane corneal dystrophy (EBMD) [MIM:121820]; also known as Cogan corneal dystrophy or map-dot-fingerprint type corneal dystrophy. EBMD is a bilateral anterior corneal dystrophy characterized by grayish epithelial fingerprint lines, geographic map-like lines, and dots (or microcysts) on slit-lamp examination. Pathologic studies show abnormal, redundant basement membrane and intraepithelial lacunae filled with cellular debris. Although this disorder usually is not considered to be inherited, families with autosomal dominant inheritance have been identified.  
 Defects in TGFBI are the cause of corneal dystrophy Groenouw type 1 (CDGG1) [MIM:121900]; also known as corneal dystrophy granular type. Inheritance is autosomal dominant. Corneal dystrophies show progressive opacification of the cornea leading to severe visual handicap.  
 Defects in TGFBI are the cause of corneal dystrophy lattice type 1 (CDL1) [MIM:122200]. Inheritance is autosomal dominant.  
 Defects in TGFBI are a cause of corneal dystrophy Thiel-Behnke type (CDTB) [MIM:602082]; also known as corneal dystrophy of Bowman layer type 2 (CDB2).  
 Defects in TGFBI are the cause of Reis-Buecklers corneal dystrophy (CDRB) [MIM:608470]; also known as corneal dystrophy of Bowman layer type 1 (CDB1).  
 Defects in TGFBI are the cause of lattice corneal dystrophy type 3A (CDL3A) [MIM:608471]. CDL3A clinically resembles to lattice corneal dystrophy type 3, but differs in that its age of onset is 70 to 90 years. It has an autosomal dominant inheritance pattern.  
 Defects in TGFBI are the cause of Avellino corneal dystrophy (ACD) [MIM:607541]. ACD could be considered a variant of granular dystrophy with a significant amyloidogenic tendency. Inheritance is autosomal dominant.

**配列類似性**                    Contains 1 EMI domain.  
 Contains 4 FAS1 domains.

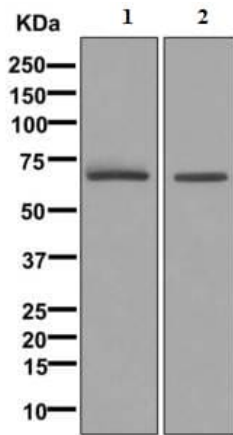
## 翻訳後修飾

Gamma-carboxyglutamate residues are formed by vitamin K dependent carboxylation. These residues are essential for the binding of calcium.

## 細胞内局在

Secreted > extracellular space > extracellular matrix. May be associated both with microfibrils and with the cell surface.

## 画像



Western blot - Anti-TGFBI antibody [EPR12078(B)] (ab170874)

**All lanes :** Anti-TGFBI antibody [EPR12078(B)] (ab170874) at 1/1000 dilution

**Lane 1 :** Human fetal kidney lysate

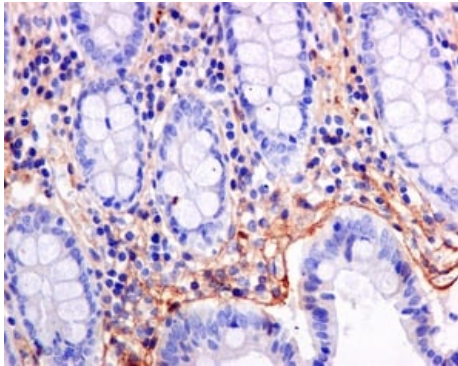
**Lane 2 :** Human fetal liver lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** HRP labeled goat anti-rabbit IgG at 1/2000 dilution

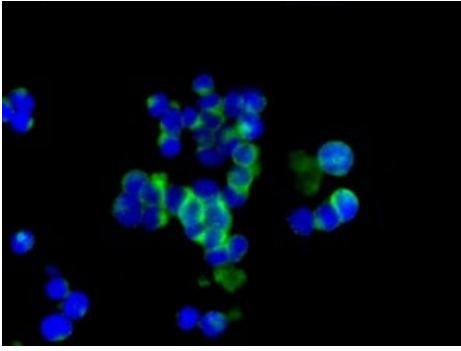
**Predicted band size:** 75 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TGFBI antibody [EPR12078(B)] (ab170874)

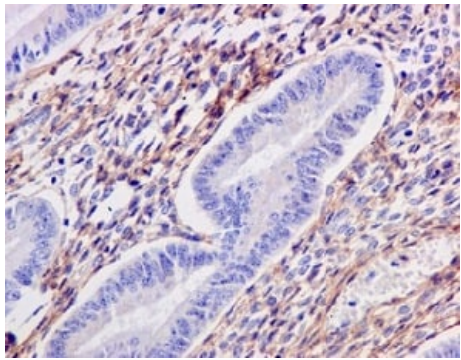
Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling TGFBI using ab170874 at a 1/100 dilution

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunofluorescent staining of Y79 cells labeling TGFBI using ab170874 at a 1/50 dilution (green) and DAPI nuclear staining (blue).

Immunocytochemistry/ Immunofluorescence - Anti-TGFBI antibody [EPR12078(B)] (ab170874)



Immunohistochemical analysis of paraffin-embedded Human uterus tissue labeling TGFBI using ab170874 at a 1/100 dilution

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TGFBI antibody [EPR12078(B)] (ab170874)

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-TGFBI antibody [EPR12078(B)] (ab170874)

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

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