

Anti-Fibroblast activation protein, alpha antibody [EPR20021] ab207178

リコンビナント RabMAb

★★★★☆ **15 Abreviews** **58 References** 画像数 12

製品の概要

製品名	Anti-Fibroblast activation protein, alpha antibody [EPR20021]
製品の詳細	Rabbit monoclonal [EPR20021] to Fibroblast activation protein, alpha
由来種	Rabbit
特異性	Except for the 95kDa form, 100-120kDa or even higher molecular weights were also observed due to glycosylation (PMID: 24551161, PMID: 28452380).
アプリケーション	適用あり: WB, IHC-P
種交差性	交差種: Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: WI-38, U-87 MG, HFF-1 and IMR-90 whole cell lysates. IHC-P: Human breast cancer, colon cancer, ovarian carcinoma, stomach cancer and pancreatic cancer tissues;
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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: 59% PBS, 40% Glycerol, 0.05% BSA
精製度	Protein A purified

ポリ/モノ	モノクローナル
クローン名	EPR20021
アイソタイプ	IgG

アプリケーション

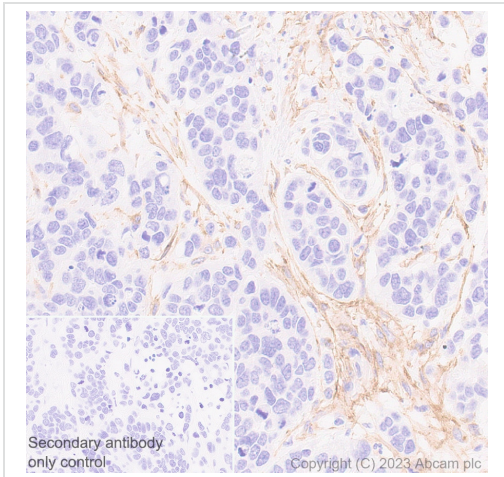
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab207178の使用に適用されず**
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (2)	1/1000. Detects a band of approximately 95 kDa (predicted molecular weight: 88 kDa).
IHC-P	★★★★★ (11)	1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

ターゲット情報

機能	In association with DPP4 is involved in the pericellular proteolysis of the extracellular matrix (ECM), the migration and invasion of endothelial cells into the ECM. May have a role in tissue remodeling during development and wound healing, and may contribute to invasiveness in malignant cancers.
組織特異性	Fibroblast specific.
配列類似性	Belongs to the peptidase S9B family.
翻訳後修飾	N-glycosylated. The N-terminus may be blocked.
細胞内局在	Cell membrane. Cell projection > lamellipodium membrane. Cell projection > invadopodium membrane. Found in cell surface lamellipodia, invadopodia and on shed vesicles. Colocalized with DPP4 in invadopodia and lamellipodia of migratory activated endothelial cells in collagenous matrix. Colocalized with DPP4 on endothelial cells of capillary-like microvessels but not large vessels within invasive breast ductal carcinoma.

画像

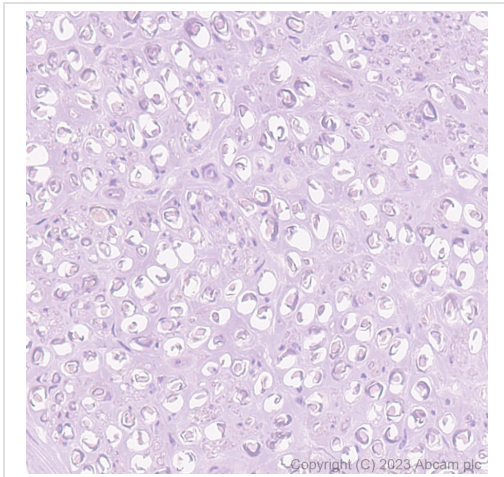


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178)

Immunohistochemical analysis of paraffin-embedded Human stomach cancer tissue labeling Fibroblast activation protein, alpha with ab207178 at 1/1000 (0.718 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on stromal fibroblast cells of human stomach cancer. The section was incubated with ab207178 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection)

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

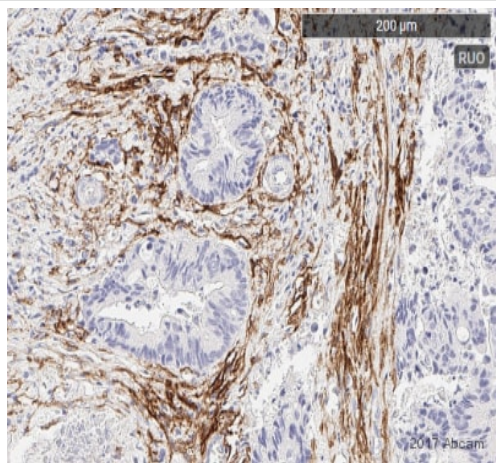


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178)

Immunohistochemical analysis of paraffin-embedded Human sciatic nerve tissue labeling Fibroblast activation protein, alpha with ab207178 at 1/1000 (0.718 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). **Negative control:** no staining on human sciatic nerve. The section was incubated with ab207178 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection)

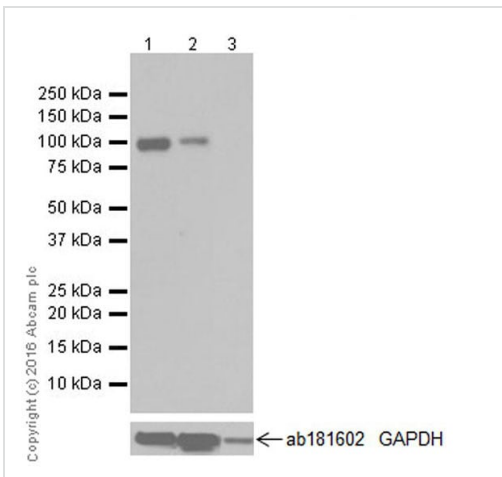
Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178)

Courtesy of an anonymous abreview

Formalin-fixed, paraffin-embedded human colon cancer tissue labeling Fibroblast activation protein, alpha using ab207178 at 1/100 dilution in immunohistochemical analysis. Heat mediated antigen retrieval using Citrate, pH 6.0.



Western blot - Anti-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178)

All lanes : Anti-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178) at 1/1000 dilution

Lane 1 : WI-38 (Human fetal lung fibroblast cell line) whole cell lysate

Lane 2 : U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) whole cell lysate

Lane 3 : Human fetal liver lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 88 kDa

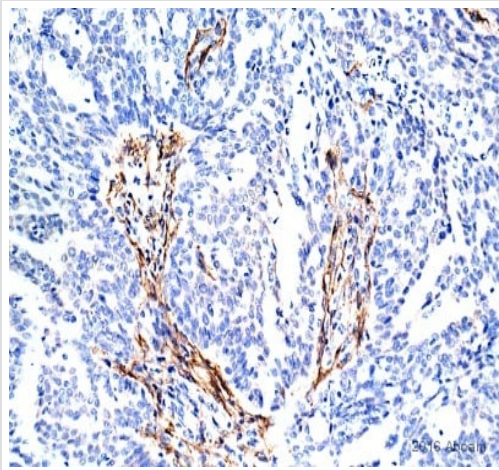
Observed band size: 95 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

The molecular weight is consistent with the literature.

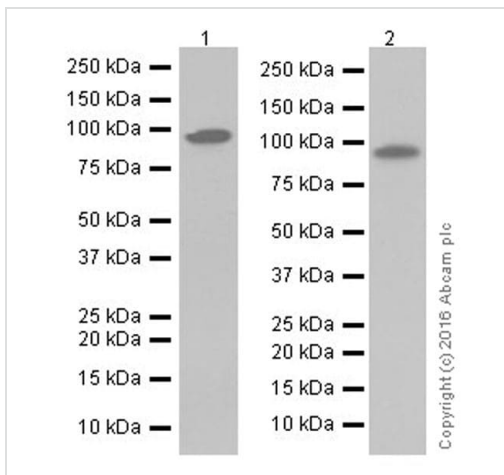
Negative control: Human fetal liver (PMID: 10593948, PMID: 9139873).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178)

This image is of an Abreview submitted by Carl Hobbs.

Immunohistochemical analysis of formaldehyde fixed paraffin embedded human Ovarian carcinoma tissue sections labeling Fibroblast activation protein with ab207178 at 1/500. Biotin conjugated goat anti-rabbit IgG at 1/300 was used as the secondary antibody. Antigen retrieval was heat mediated using citric acid.



Western blot - Anti-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178)

All lanes : Anti-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178) at 1/1000 dilution

Lane 1 : HFF-1 (Human foreskin fibroblast cell line) whole cell lysate

Lane 2 : IMR-90 (Human lung fibroblast cell line) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

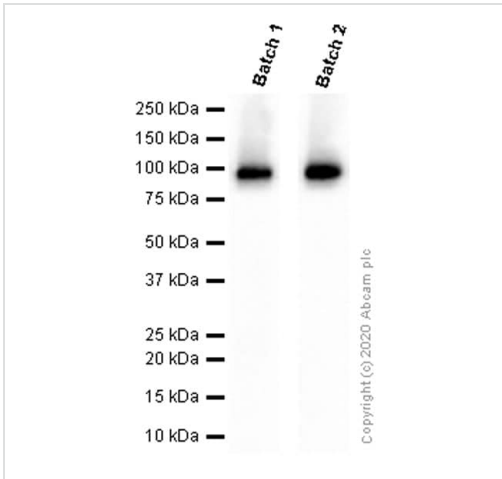
Predicted band size: 88 kDa

Observed band size: 95 kDa

Blocking/Dilution buffer: 5% NFDm/TBST.

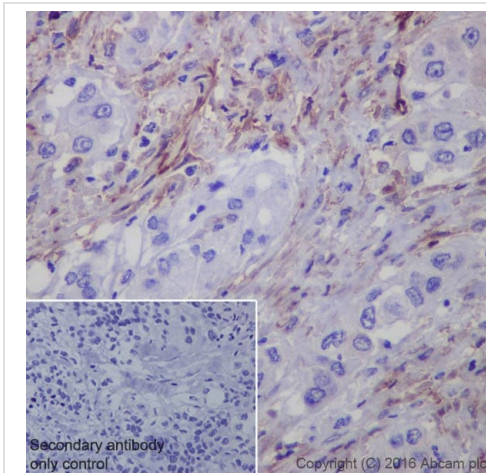
Exposure time: Lane 1: 1 minute; Lane 2: 3 minutes.

The molecular weight is consistent with the literature (PMID: 10593948).



Western blot - Anti-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178)

Different batches of ab207178 were tested on IMR-90 (Human lung fibroblast cell line) lysate at 1.0 µg/ml. 15 µg of lysate was loaded in each lane. Bands observed at 95 kDa.



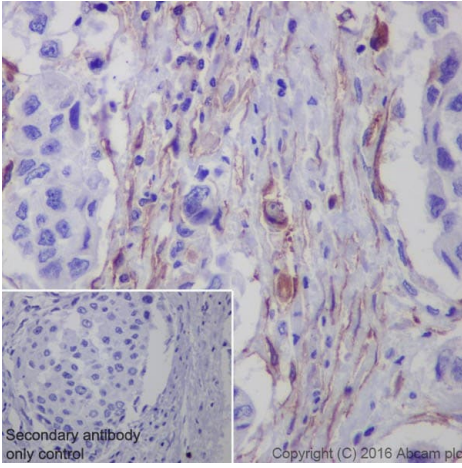
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178)

Immunohistochemical analysis of paraffin-embedded human pancreatic cancer tissue labeling Fibroblast activation protein, alpha with ab207178 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Cell surface staining on stromal cells of human pancreas cancer is observed [PMID:2371645].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



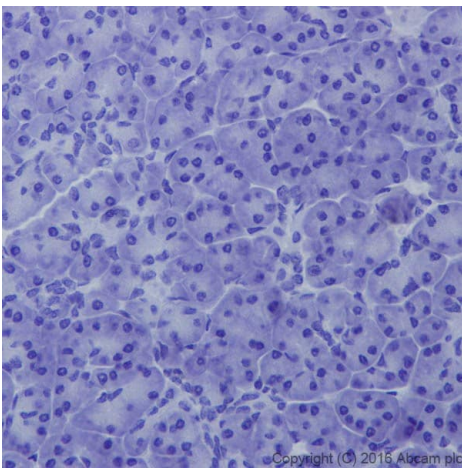
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178)

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue labeling Fibroblast activation protein, alpha with ab207178 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Cell surface staining on stromal cells of human breast cancer is observed [PMID:18628473].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



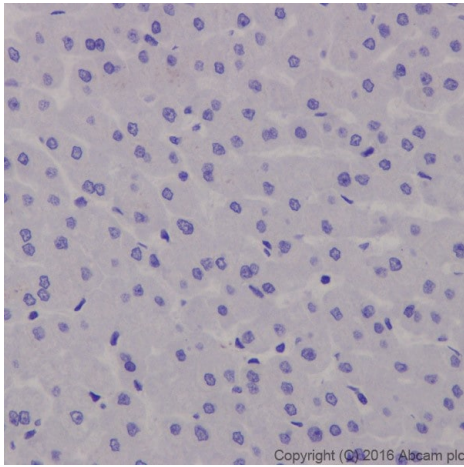
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178)

Immunohistochemical analysis of paraffin-embedded human pancreas tissue labeling Fibroblast activation protein, alpha with ab207178 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Negative control: no staining on human pancreas [PMID:22371645].

Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemical analysis of paraffin-embedded human liver tissue labeling Fibroblast activation protein, alpha with ab207178 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution.

Negative control: no staining on human liver [PMID: 9139873].

Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178)

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-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors