

### Anti-Fibronectin antibody [EPR23110-25] ab268021

敲除验证
重组
RabMAb

[7 References](#)
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#### 概述

产品名称	Anti-Fibronectin抗体[EPR23110-25]
描述	兔单克隆抗体[EPR23110-25] to Fibronectin
宿主	Rabbit
经测试应用	<b>适用于:</b> IHC-P, IHC-Fr, Flow Cyt, WB <b>不适用于:</b> ICC/IF or IP
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Human serum, plasma, colon and stomach lysate. Mouse and rat plasma. Wild-type HAP1 whole cell lysate. IHC-P: Human mammary gland tissue, human pancreatic carcinoma, Human esophageal squamous cell carcinoma tissue. Mouse stomach and rat liver tissue. IHC-Fr: Mouse and rat colon tissue. Flow Cyt: NIH/3T3 cells.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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> <p>For more information <a href="#">see here</a>.</p> <p>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>.</p>

#### 性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号EPR23110-25

同种型IgG

应用

The Abpromise guarantee      **Abpromise™**承诺保证使用ab268021于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IHC-Fr		1/100. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).
Flow Cyt		1/500.
WB		1/1000. Detects a band of approximately 285 kDa (predicted molecular weight: 262 kDa).

应用说明      Is unsuitable for ICC/IF or IP.

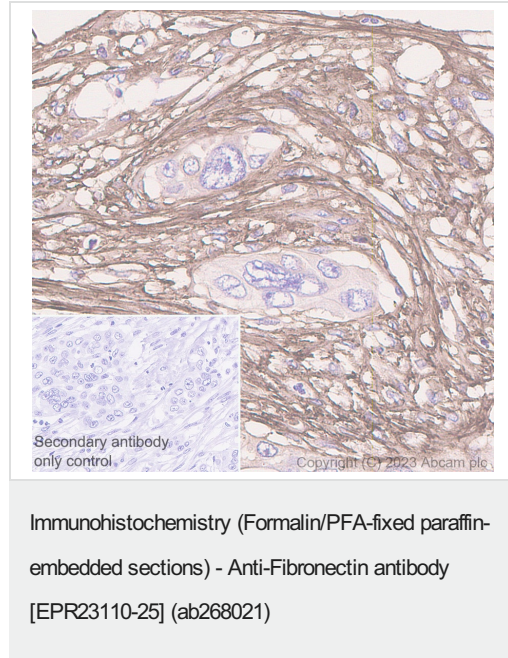
靶标

功能	<p>Fibronectins bind cell surfaces and various compounds including collagen, fibrin, heparin, DNA, and actin. Fibronectins are involved in cell adhesion, cell motility, opsonization, wound healing, and maintenance of cell shape. Involved in osteoblast compaction through the fibronectin fibrillogenesis cell-mediated matrix assembly process, essential for osteoblast mineralization. Participates in the regulation of type I collagen deposition by osteoblasts.</p> <p>Anastellin binds fibronectin and induces fibril formation. This fibronectin polymer, named superfibronectin, exhibits enhanced adhesive properties. Both anastellin and superfibronectin inhibit tumor growth, angiogenesis and metastasis. Anastellin activates p38 MAPK and inhibits lysophospholipid signaling.</p>
组织特异性	<p>Plasma FN (soluble dimeric form) is secreted by hepatocytes. Cellular FN (dimeric or cross-linked multimeric forms), made by fibroblasts, epithelial and other cell types, is deposited as fibrils in the extracellular matrix. Ugl-Y1, Ugl-Y2 and Ugl-Y3 are found in urine.</p>
疾病相关	<p>Glomerulopathy with fibronectin deposits 2</p>
序列相似性	<p>Contains 12 fibronectin type-I domains.</p> <p>Contains 2 fibronectin type-II domains.</p> <p>Contains 16 fibronectin type-III domains.</p>
发展阶段	<p>Ugl-Y1, Ugl-Y2 and Ugl-Y3 are present in the urine from 0 to 17 years of age.</p>
翻译后修饰	<p>Sulfated.</p> <p>It is not known whether both or only one of Thr-2064 and Thr-2065 are/is glycosylated.</p> <p>Forms covalent cross-links mediated by a transglutaminase, such as F13A or TGM2, between a glutamine and the epsilon-amino group of a lysine residue, forming homopolymers and heteropolymers (e.g. fibrinogen-fibronectin, collagen-fibronectin heteropolymers).</p>

Phosphorylated by FAM20C in the extracellular medium.  
 Proteolytic processing produces the C-terminal NC1 peptide, anastellin.  
 Secreted, extracellular space, extracellular matrix.

## 细胞定位

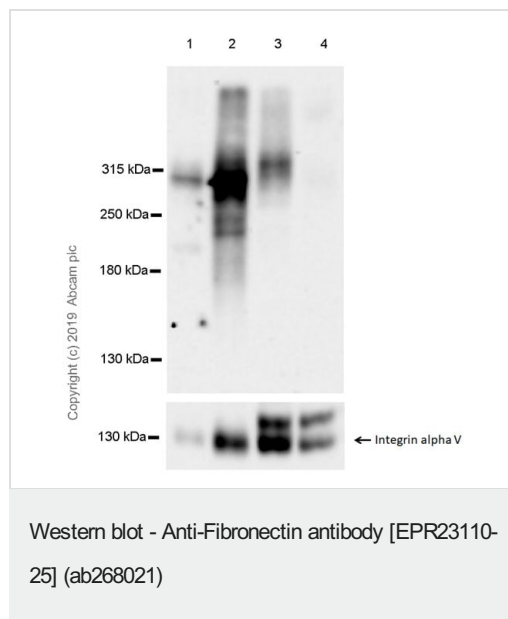
## 图片



Immunohistochemical analysis of paraffin-embedded human pancreatic carcinoma labeling Fibronectin with ab268021 at 1/2000 dilution (0.228 µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). The section was incubated with ab268021 at 4°C overnight. Positive staining in the human pancreatic carcinoma noted. Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).



**All lanes :** Anti-Fibronectin antibody [EPR23110-25] (ab268021) at 1/1000 dilution

**Lane 1 :** Human colon lysate at 20 µg

**Lane 2 :** Human stomach lysate at 20 µg

**Lane 3 :** Wild-type HAP1 whole cell lysate at 40 µg

**Lane 4 :** Fibronectin knockout HAP1 whole cell lysate at 40 µg

### Secondary

**Lanes 1-2 :** VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/1000 dilution

**Lanes 3-4 :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 262 kDa

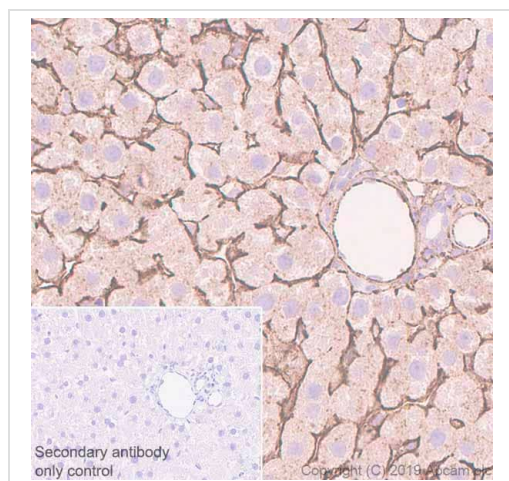
**Observed band size:** 285 kDa

Blocking and dilution buffer: 5% NFDm/TBST.

Exposure time: 44 seconds.

The expression molecular weight observed is consistent with what has been described in the literature (PMID:28367057).

ab268021 was shown to specifically react with Fibronectin in wild-type HAP1 cells as signal was lost in Fibronectin knockout cells. Wild-type and Fibronectin knockout samples were subjected to SDS-PAGE. ab268021 and **ab179475** (Rabbit anti-Integrin alpha V loading control) were incubated 1 hour at room temperature at 1/1000 dilution and 1/5000 dilution respectively. Blots were developed with Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) secondary antibody at 1/100,000 dilution for 1 hour at room temperature before imaging. The blot was developed on a BIO-RAD<sup>®</sup> ChemiDoc<sup>™</sup> MP instrument using the ECL technique.

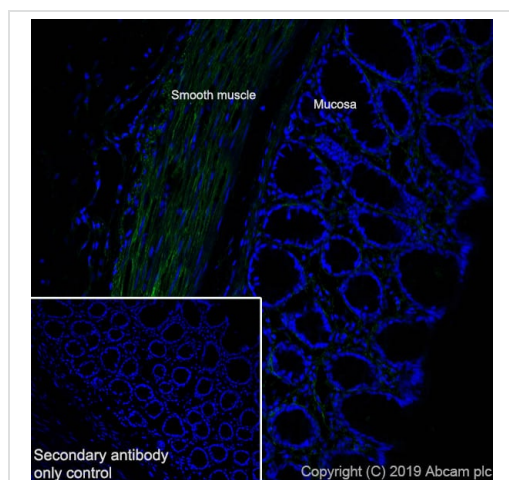


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibronectin antibody [EPR23110-25] (ab268021)

Immunohistochemical analysis of paraffin-embedded rat liver tissue labeling Fibronectin with ab268021 at 1/2000 dilution (0.23 µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining in the perivascular tissue of sinusoids of rat liver (PMID:650101). Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

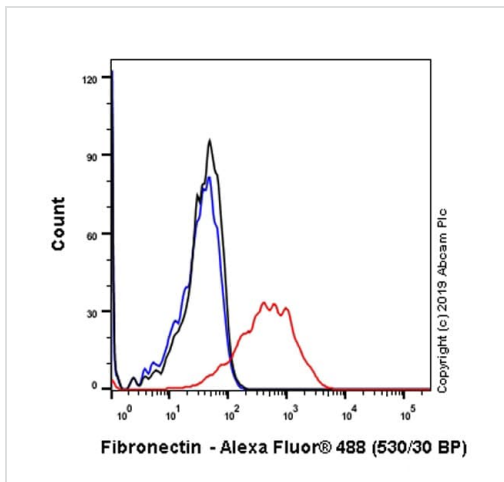


Immunohistochemistry (Frozen sections) - Anti-Fibronectin antibody [EPR23110-25] (ab268021)

Immunohistochemical analysis of frozen section of 4% PFA-fixed, 0.2% Triton X-100 permeabilized rat colon tissue labeling Fibronectin with ab268021 at 1/100 dilution followed by **ab150077** AlexaFluor<sup>®</sup>488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Positive staining mainly on smooth muscle of rat colon (PMID: 17881565). The nuclear counterstain is DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** AlexaFluor<sup>®</sup>488 Goat anti-Rabbit secondary antibody at 1/1000 dilution.

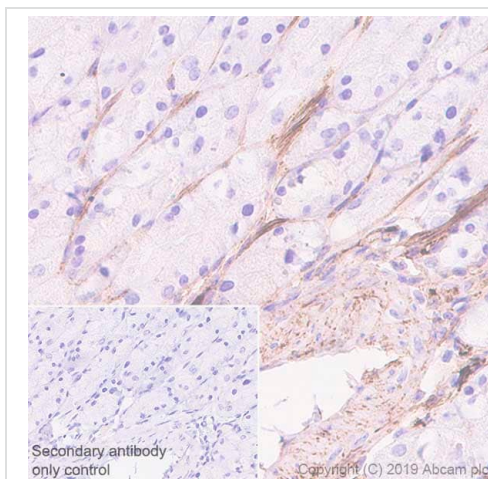
Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).



Flow Cytometry - Anti-Fibronectin antibody  
[EPR23110-25] (ab268021)

Flow cytometric analysis of NIH/3T3 (mouse embryonic fibroblast) cells labeling Fibronectin with ab268021 at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

Gated on viable cells.



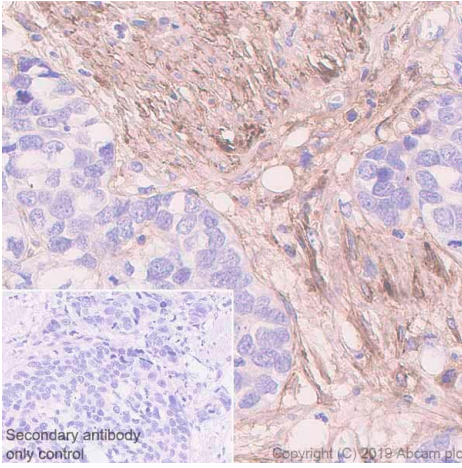
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibronectin antibody  
[EPR23110-25] (ab268021)

Immunohistochemical analysis of paraffin-embedded mouse stomach tissue labeling Fibronectin with ab268021 at 1/2000 dilution (0.23 µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining in the smooth muscle of mouse stomach (PMID:650101). Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).



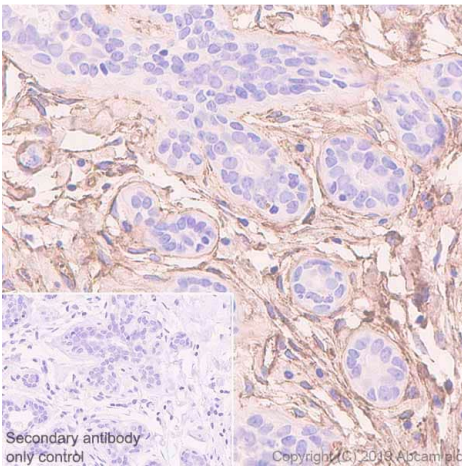


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibronectin antibody [EPR23110-25] (ab268021)

Immunohistochemical analysis of paraffin-embedded human esophageal squamous cell carcinoma tissue labeling Fibronectin with ab268021 at 1/2000 dilution (0.23 µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining in the stroma of human esophageal squamous cell carcinoma (PMID:30314454). Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).

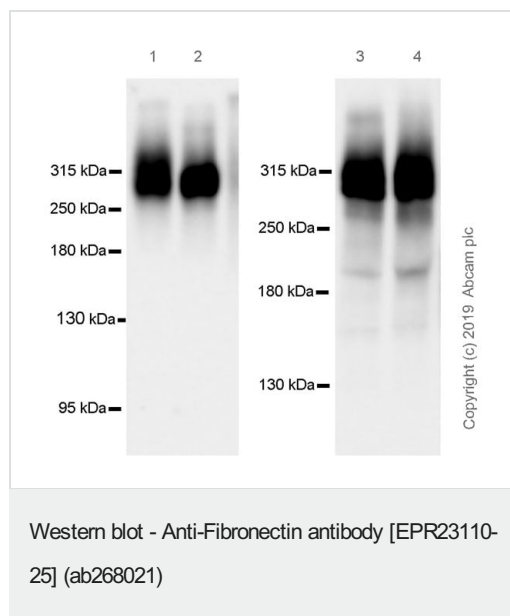


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibronectin antibody [EPR23110-25] (ab268021)

Immunohistochemical analysis of paraffin-embedded human mammary gland tissue labeling Fibronectin with ab268021 at 1/2000 dilution (0.23 µg/ml) followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining in the stroma of human mammary gland (PMID:650101). Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

Heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).



**All lanes :** Anti-Fibronectin antibody [EPR23110-25] (ab268021)  
at 1/1000 dilution

**Lane 1 :** Human serum

**Lane 2 :** Human plasma

**Lane 3 :** Mouse plasma

**Lane 4 :** Rat plasma

Lysates/proteins at 20 µg per lane.

## Secondary

**Lanes 1-2 :** VeriBlot for IP Detection Reagent (HRP) ([ab131366](#))  
at 1/1000 dilution

**Lanes 3-4 :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at  
1/100000 dilution

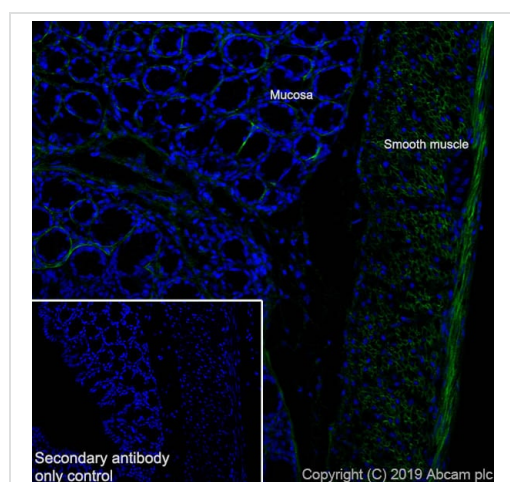
**Predicted band size:** 262 kDa

**Observed band size:** 285 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 3.25 seconds.

The expression molecular weight observed is consistent with what has been described in the literature (PMID:28367057).



Immunohistochemical analysis of frozen section of 4% PFA-fixed, 0.2% Triton X-100 permeabilized mouse colon tissue labeling Fibronectin with ab268021 at 1/100 dilution followed by [ab150077](#) AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Positive staining mainly on smooth muscle of mouse colon (PMID: 17881565). The nuclear counterstain is DAPI (Blue).

Secondary antibody only control: Secondary antibody is [ab150077](#) AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

### 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-Fibronectin antibody [EPR23110-25] (ab268021)

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

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