

### Anti-Cytokeratin 18 antibody [EPR17347] ab181597

リコンビナント **RabMAb**

★★★★★ **3 Abreviews** **17 References** 画像数 **11**

#### 製品の概要

製品名	Anti-Cytokeratin 18 antibody [EPR17347]
製品の詳細	Rabbit monoclonal [EPR17347] to Cytokeratin 18
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, IHC-P <b>適用なし:</b> Flow Cyt or ICC/IF
種交差性	<b>交差種:</b> Mouse, Rat, 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: Mouse colon, rat lung, mouse kidney, human fetal skin and mouse spleen tissue lysates, HeLa and F9 cell lysates. IHC-P: Human liver and colonic adenocarcinoma, mouse liver and rat kidney tissue.
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	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	EPR17347

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ab181597の使用に適用されます  
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。

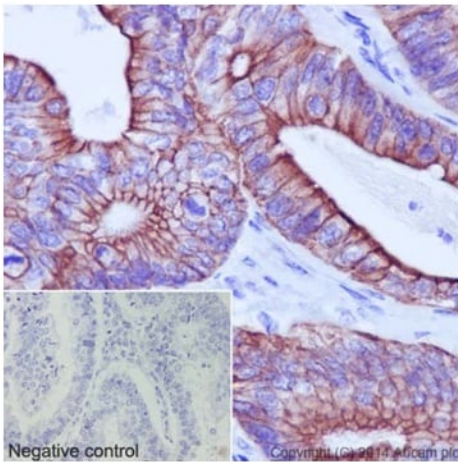
アプリケーション	Abreviews	特記事項
WB		1/2000. Detects a band of approximately 47, 45 kDa (predicted molecular weight: 47 kDa).
IHC-P	★★★★★ (3)	1/800. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

追加情報      Is unsuitable for Flow Cyt or ICC/IF.

ターゲット情報

機能	Involved in the uptake of thrombin-antithrombin complexes by hepatic cells (By similarity). When phosphorylated, plays a role in filament reorganization. Involved in the delivery of mutated CFTR to the plasma membrane. Together with KRT8, is involved in interleukin-6 (IL-6)-mediated barrier protection.
組織特異性	Expressed in colon, placenta, liver and very weakly in exocervix. Increased expression observed in lymph nodes of breast carcinoma.
関連疾患	Defects in KRT18 are a cause of cirrhosis (CIRRH) [MIM:215600].
配列類似性	Belongs to the intermediate filament family.
翻訳後修飾	Phosphorylation at Ser-34 increases during mitosis. Hyperphosphorylated at Ser-53 in diseased cirrhosis liver. Phosphorylation increases by IL-6. Proteolytically cleaved by caspases during epithelial cell apoptosis. Cleavage occurs at Asp-238 by either caspase-3, caspase-6 or caspase-7. O-glycosylated at multiple sites; glycans consist of single N-acetylglucosamine residues.
細胞内局在	Cytoplasm > perinuclear region.

画像

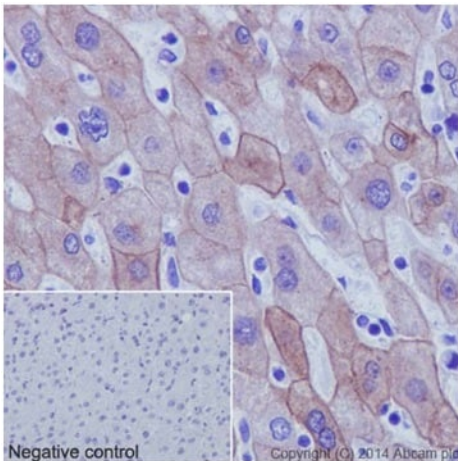


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 18 antibody [EPR17347] (ab181597)

Immunohistochemical analysis of paraffin-embedded Human colonic adenocarcinoma tissue labeling Cytokeratin 18 with ab181597 at 1/800 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution. IHC showed membrane and cytoplasm staining on tumor cells of Human colon cancer. Counter stained with Hematoxylin.

Negative 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.

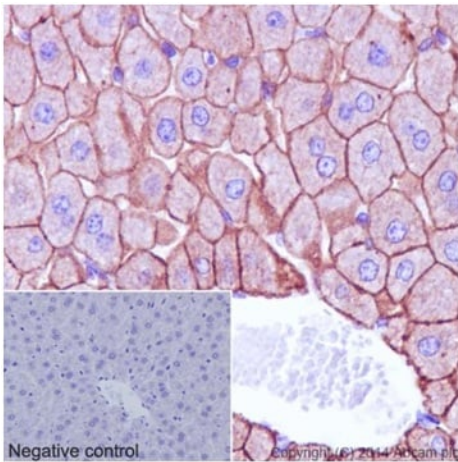


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 18 antibody [EPR17347] (ab181597)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling Cytokeratin 18 with ab181597 at 1/800 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution. IHC showed membrane and cytoplasm staining on hepatocytes of Human liver. Counter stained with Hematoxylin.

Negative 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.

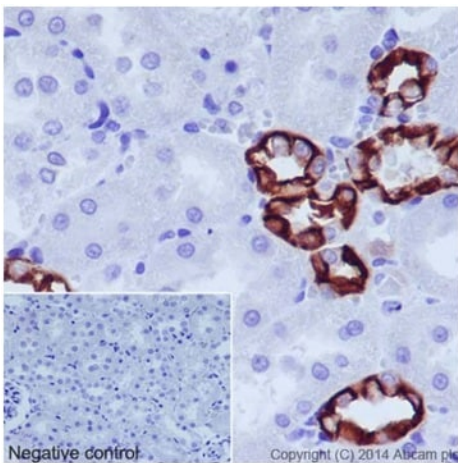


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 18 antibody [EPR17347] (ab181597)

Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling Cytokeratin 18 with ab181597 at 1/800 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution. IHC showed membrane and cytoplasm staining on hepatocytes of mouse liver. Counter stained with Hematoxylin.

Negative 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.

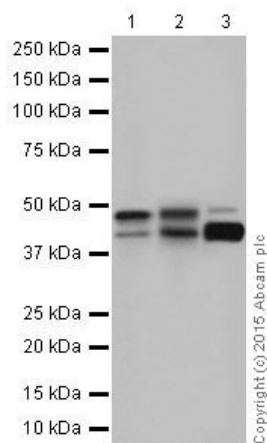


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytokeratin 18 antibody [EPR17347] (ab181597)

Immunohistochemical analysis of paraffin-embedded Rat kidney tissue labeling Cytokeratin 18 with ab181597 at 1/800 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) secondary antibody at 1/500 dilution. IHC showed membrane and cytoplasm staining on tubules of rat kidney. Counter stained with Hematoxylin.

Negative 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.



Western blot - Anti-Cytokeratin 18 antibody  
[EPR17347] (ab181597)

**All lanes :** Anti-Cytokeratin 18 antibody [EPR17347] (ab181597)  
at 1/10000 dilution

**Lane 1 :** Mouse colon lysate

**Lane 2 :** Rat lung lysate

**Lane 3 :** HeLa (Human epithelial cells from cervix  
adenocarcinoma) whole cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at  
1/1000 dilution

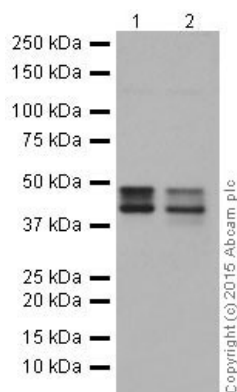
**Predicted band size:** 47 kDa

**Observed band size:** 45,48 kDa

**Exposure time:** 30 seconds

5% NFDM/TBST: Blocking and diluting buffer.

The observed MW is consistent with what has been described in  
the literature (PMID:9298992).



Western blot - Anti-Cytokeratin 18 antibody  
[EPR17347] (ab181597)

**All lanes :** Anti-Cytokeratin 18 antibody [EPR17347] (ab181597)  
at 1/5000 dilution

**Lane 1 :** Mouse kidney lysate

**Lane 2 :** Mouse spleen lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at  
1/1000 dilution

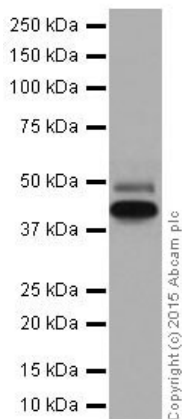
**Predicted band size:** 47 kDa

**Observed band size:** 45,48 kDa

**Exposure time:** 5 seconds

5% NFDM/TBST: Blocking and diluting buffer.

The observed MW is consistent with what has been described in  
the literature (PMID:9298992).



Western blot - Anti-Cytokeratin 18 antibody  
[EPR17347] (ab181597)

Anti-Cytokeratin 18 antibody [EPR17347] (ab181597) at 1/10000  
dilution + Human fetal skin lysate at 10 µg

### Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at  
1/1000 dilution

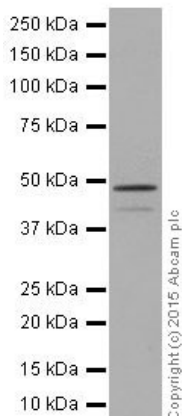
**Predicted band size:** 47 kDa

**Observed band size:** 45,48 kDa

**Exposure time:** 2 minutes

5% NFDM/TBST: Blocking and diluting buffer.

The observed MW is consistent with what has been described in  
the literature (PMID:9298992).



Western blot - Anti-Cytokeratin 18 antibody  
[EPR17347] (ab181597)

Anti-Cytokeratin 18 antibody [EPR17347] (ab181597) at 1/2000 dilution + F9 (Mouse embryo testicular cancer cell line) whole cell lysate at 10 µg

### Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

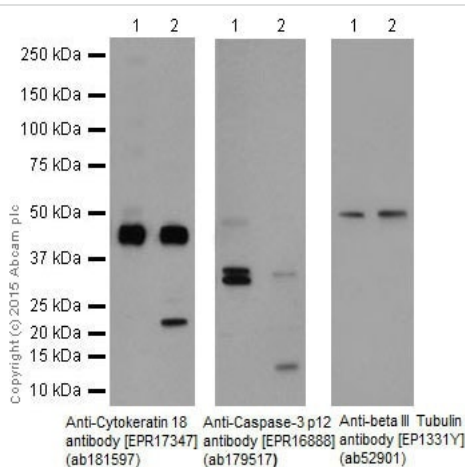
**Predicted band size:** 47 kDa

**Observed band size:** 45,48 kDa

**Exposure time:** 3 minutes

5% NFDM/TBST: Blocking and diluting buffer.

The observed MW is consistent with what has been described in the literature (PMID:9298992).



Western blot - Anti-Cytokeratin 18 antibody  
[EPR17347] (ab181597)

**All lanes :** Anti-Cytokeratin 18 antibody [EPR17347] (ab181597) at 1/5000 dilution

**Lane 1 :** Untreated HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate

**Lane 2 :** HeLa whole cell lysate treated with 1uM staurosporine for 4 hours

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 47 kDa

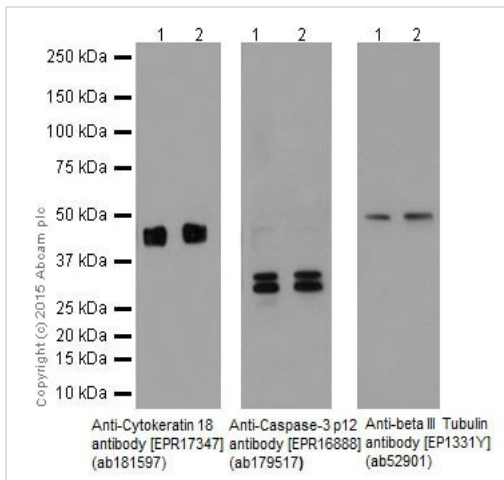
**Observed band size:** 22,45,48 kDa

**Exposure time:** 15 seconds

5% NFDM/TBST: Blocking and diluting buffer.



The 22 kDa cytokeratin 18 fragment was generated (lane 2) in the staurosporine-treated lysate that contained the active caspase 3.



Western blot - Anti-Cytokeratin 18 antibody [EPR17347] (ab181597)

**All lanes :** Anti-Cytokeratin 18 antibody [EPR17347] (ab181597) at 1/5000 dilution

**Lane 1 :** Untreated HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate

**Lane 2 :** HeLa whole cell lysate treated with 50uM Z-VAD-FMK for 4 hours

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Predicted band size:** 47 kDa

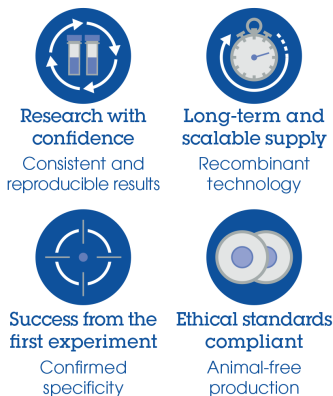
**Observed band size:** 45,48 kDa

**Exposure time:** 2 seconds

5% NFDm/TBST: Blocking and diluting buffer.

The generation of the 22kDa fragment was inhibited when the caspase 3 activity was blocked by the caspase inhibitor, Z-VAD-FMK.

Why choose a recombinant antibody?



Anti-Cytokeratin 18 antibody [EPR17347] (ab181597)



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