

### Anti-PCSK2 antibody [EPR23578-19] ab274418

重组 RabMAb

#### 11 图像

#### 概述

产品名称	Anti-PCSK2抗体[EPR23578-19]
描述	兔单克隆抗体[EPR23578-19] to PCSK2
宿主	Rabbit
经测试应用	<b>适用于:</b> IHC-P, ICC/IF, Flow Cyt (Intra), mIHC, WB <b>不适用于:</b> IHC-Fr or IP
种属反应性	<b>与反应:</b> Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: TT whole cell lysate; Human brain tissue lysate. IHC-P: Human pancreas, colon and adrenal gland tissue. ICC/IF: TT cells. Flow Cyt (intra): TT cells.
常规说明	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> .

#### 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. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR23578-19
同种型	IgG

## 应用

### The Abpromise guarantee

**Abpromise™** 承诺保证使用 ab274418 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.
ICC/IF		1/100.
Flow Cyt (Intra)		1/500.
mIHC		1/2000.
WB		1/1000. Detects a band of approximately 55, 70 kDa (predicted molecular weight: 71 kDa).

### 应用说明

Is unsuitable for IHC-Fr or IP.

## 靶标

### 功能

Involved in the processing of hormone and other protein precursors at sites comprised of pairs of basic amino acid residues.

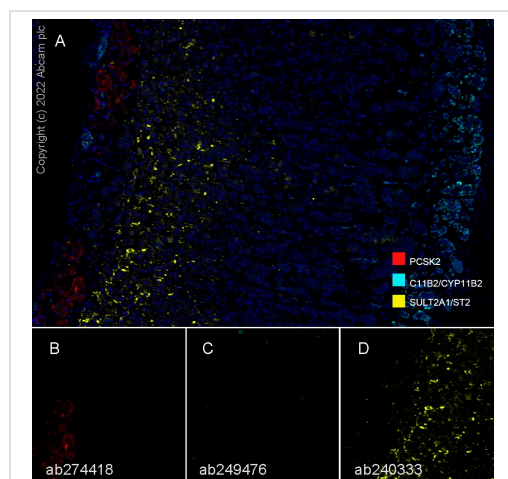
### 序列相似性

Belongs to the peptidase S8 family. Furin subfamily.

### 细胞定位

Cytoplasmic vesicle > secretory vesicle. Localized in the secretion granules.

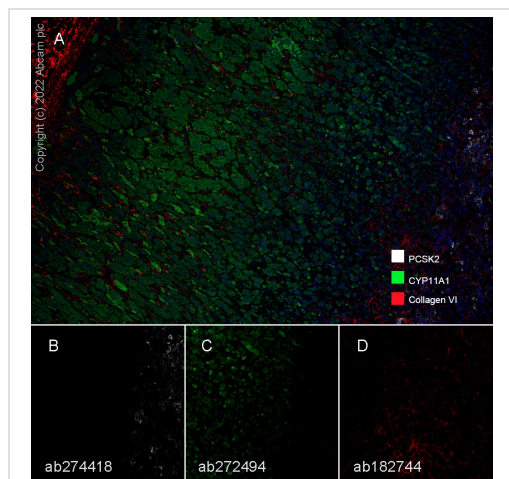
## 图片



Multiplex immunohistochemistry - Anti-PCSK2 antibody [EPR23578-19] (ab274418)

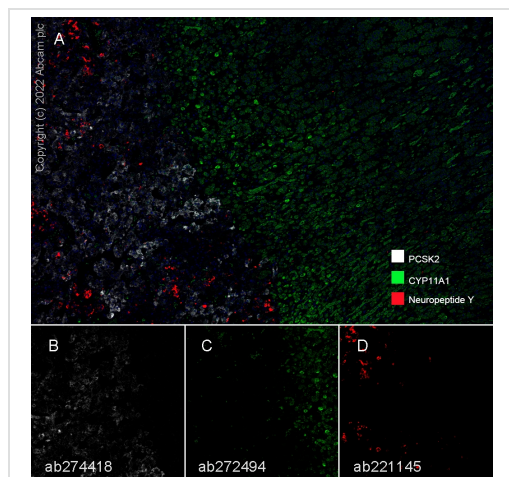
Fluorescence multiplex immunohistochemical analysis of human adrenal gland (formalin-fixed paraffin-embedded section). Panel A shows merged staining of anti-PCSK2 stained on adrenal medulla (ab274418; red; Opal™690) at 1:2000 (0.263 µg/ml) [Panel B], anti-C11B2/CYP11B2 stained on zona glomerulosa ([ab249476](#); cyan; Opal™520) at 1:500 (4.478 µg/ml) [Panel C], and anti-SULT2A1 stained on zona reticularis ([ab240333](#); yellow; Opal™570) at 1:500 (4.504 µg/ml) [Panel D] on human adrenal gland. DAPI was used as a nuclear counter stain. Followed by Opal Polymer HRP Ms + Rb secondary antibody. The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope. The section was incubated in three rounds of staining: in the order of ab274418, [ab249476](#), and [ab240333](#) for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. Heat mediated antigen retrieval with Tris-EDTA buffer (pH

9.0, epitope retrieval solution2) for 20 mins was used.



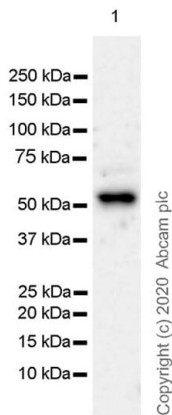
Multiplex immunohistochemistry - Anti-PCSK2 antibody [EPR23578-19] (ab274418)

Fluorescence multiplex immunohistochemical analysis of human adrenal gland (formalin-fixed paraffin-embedded section). Panel A shows merged staining of anti-PCSK2 stained on adrenal medulla (ab274418; gray; Opal™690) at 1:2000 (0.263 µg/ml) [Panel B], anti-CYP11A1 stained on adrenal cortex (**ab272494**; green; Opal™520) at 1:10000 (0.053 µg/ml) [Panel C], and anti-Collagen VI stained on extracellular matrix (**ab182744**; red; Opal™570) at 1:1000 (1.518 µg/ml) [Panel D] on human adrenal gland. DAPI was used as a nuclear counter stain. Followed by Opal Polymer HRP Ms + Rb secondary antibody. The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope. The section was incubated in three rounds of staining: in the order of ab274418, **ab272494**, and **ab182744** for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins was used.



Multiplex immunohistochemistry - Anti-PCSK2 antibody [EPR23578-19] (ab274418)

Fluorescence multiplex immunohistochemical analysis of human adrenal gland (formalin-fixed paraffin-embedded section). Panel A shows merged staining of anti-PCSK2 stained on adrenal medulla (ab274418; gray; Opal™690) at 1:2000 (0.263 µg/ml) [Panel B], anti-CYP11A1 stained on adrenal cortex (**ab272494**; green; Opal™520) at 1:10000 (0.053 µg/ml) [Panel C], and anti-Neuropeptide Y stained on chromaffin cells (**ab221145**; red; Opal™570) at 1:2000 (0.279 µg/ml) [Panel D] on human adrenal gland. DAPI was used as a nuclear counter stain. Followed by Opal Polymer HRP Ms + Rb secondary antibody. The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope. The section was incubated in three rounds of staining: in the order of ab274418, **ab272494**, and **ab221145** for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins was used.



Western blot - Anti-PCSK2 antibody [EPR23578-19] (ab274418)

Anti-PCSK2 antibody [EPR23578-19] (ab274418) at 1/1000 dilution + Human brain tissue lysate at 40 µg

**Secondary**

VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/1000 dilution

**Predicted band size:** 71 kDa

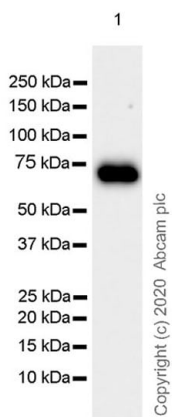
**Observed band size:** 55 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 3 minutes.

55-kDa PC2 is observed. The molecular weight observed is consistent with what has been described in the literature (PMID: 8557169, 14693708).

This blot was developed using a higher sensitivity ECL substrate.



Western blot - Anti-PCSK2 antibody [EPR23578-19] (ab274418)

Anti-PCSK2 antibody [EPR23578-19] (ab274418) at 1/1000 dilution + TT (human thyroid carcinoma epithelial cell) whole cell lysate at 40 µg

**Secondary**

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/50000 dilution

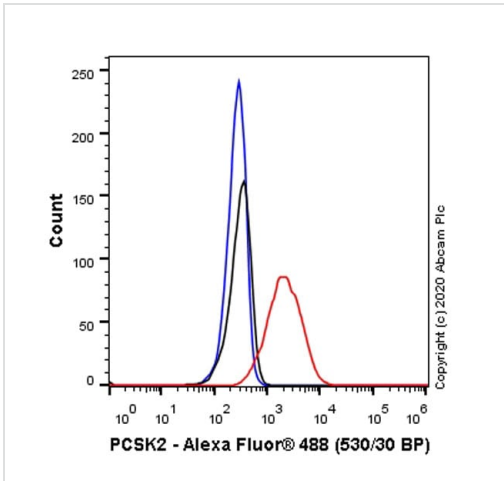
**Predicted band size:** 71 kDa

**Observed band size:** 70 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 37 seconds.

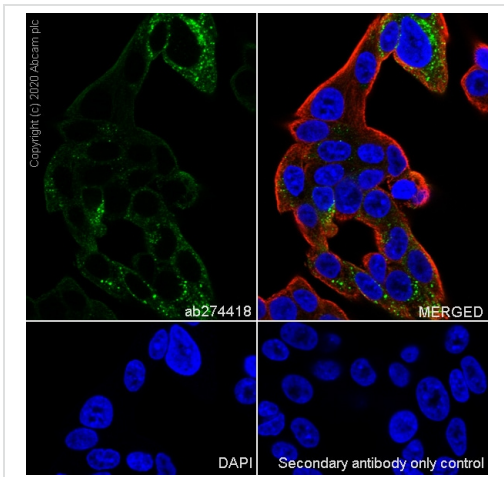
70-kDa pro-PC2 is observed. The molecular weight observed is consistent with what has been described in the literature (PMID:8557169, 14693708).



Flow Cytometry (Intracellular) - Anti-PCSK2 antibody [EPR23578-19] (ab274418)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized TT (Human thyroid carcinoma epithelial cell) cells labelling PCSK2 with ab274418 at 1/500 dilution (0.1 ug) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) isotype control (Black) and an unlabelled 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.

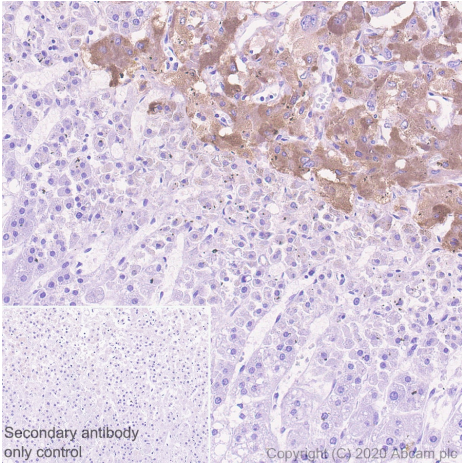


Immunocytochemistry/ Immunofluorescence - Anti-PCSK2 antibody [EPR23578-19] (ab274418)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized TT cells labelling PCSK2 with ab274418 at 1/100 (5.25 ug/ml) dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in TT cell line. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



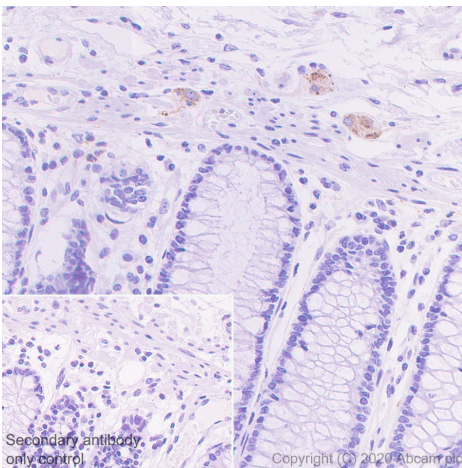


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCSK2 antibody [EPR23578-19] (ab274418)

Immunohistochemical analysis of paraffin-embedded Human adrenal gland tissue labeling PCSK2 with ab274418 at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on human adrenal gland. The section was incubated with ab274418 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND<sup>D</sup> RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

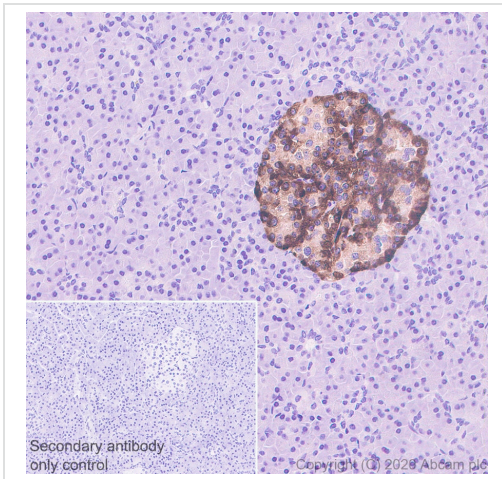


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCSK2 antibody [EPR23578-19] (ab274418)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling PCSK2 with ab274418 at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on myenteric neurons of human colon (PMID: 7829629). The section was incubated with ab274418 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND<sup>®</sup> RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.







Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCSK2 antibody [EPR23578-19] (ab274418)

Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling PCSK2 with ab274418 at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on human pancreatic islets (PMID: 8916141, PMID: 7829629). The section was incubated with ab274418 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 Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-PCSK2 antibody [EPR23578-19] (ab274418)

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

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