

# Anti-PCSK9 antibody ab31762

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### 製品の概要

製品名	Anti-PCSK9 antibody
製品の詳細	Rabbit polyclonal to PCSK9
由来種	Rabbit
特異性	From Jan 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help.
アプリケーション	<b>適用あり:</b> WB, IP, ICC/IF, IHC-P
種交差性	<b>交差種:</b> Mouse, Rat
免疫原	Synthetic peptide corresponding to Mouse PCSK9 aa 650 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab32727</a> )
ポジティブ・コントロール	This antibody gave a positive signal in the following tissue lysates: Liver (Mouse) Kidney (Mouse) Liver (Rat) Kidney (Rat) This antibody gave a positive signal in the following cell types: PC12. It also gave a positive signal in FFPE mouse large intestine tissue sections.
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p>

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

## アプリケーション

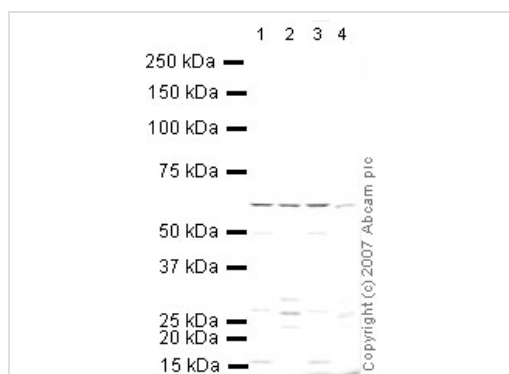
**The Abpromise guarantee**      **Abpromise保証は、次のテスト済みアプリケーションにおけるab31762の使用に適用されます**  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 62 kDa (predicted molecular weight: 74 kDa).
IP		Use a concentration of 5 µg/ml.
ICC/IF		Use a concentration of 5 µg/ml.
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

## ターゲット情報

機能	May be implicated in the differentiation of cortical neurons and may play a role in cholesterol homeostasis.
組織特異性	Expressed in neuro-epithelioma, colon carcinoma, hepatic and pancreatic cell lines, and in Schwann cells.
関連疾患	Defects in PCSK9 are the cause of familial hypercholesterolemia 3 (FH3) [MIM:603776]. FH3 inheritance is autosomal dominant.
配列類似性	Belongs to the peptidase S8 family. Contains 1 peptidase S8 domain.
翻訳後修飾	The soluble zymogen undergoes autocatalytic intramolecular processing in the endoplasmic reticulum, resulting in the cleavage of its propeptide that remains associated with the secreted enzyme.
細胞内局在	Secreted.

## 画像



Western blot - Anti-PCSK9 antibody (ab31762)

**All lanes** : Anti-PCSK9 antibody (ab31762) at 1 µg/ml

**Lane 1** : Liver (Mouse) Tissue Lysate

**Lane 2** : Kidney (Mouse) Tissue Lysate

**Lane 3** : Liver (Rat) Tissue Lysate

**Lane 4** : Kidney (Rat) Whole Cell Lysate - normal tissue ([ab29480](#))

Lysates/proteins at 10 µg per lane.

### Secondary

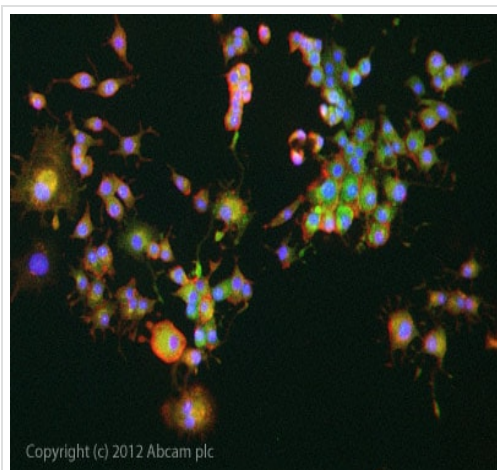
**All lanes** : IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

**Predicted band size:** 74 kDa

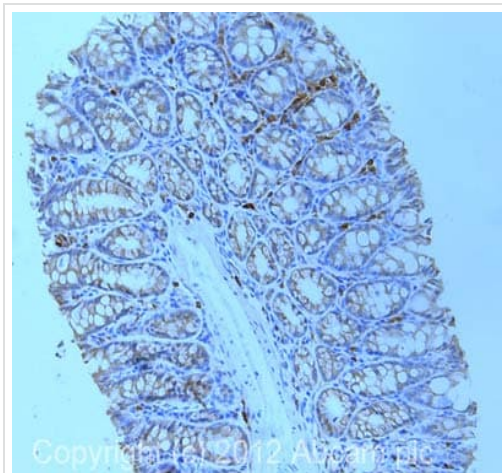
**Observed band size:** 62 kDa

ab31762 detects a band of ~62 kDa in liver and kidney lysates from mouse and rat. This corresponds to the cleaved form of PCSK9. ab31762 has not detected the 74 kDa proprotein form in the lysates tested.



Immunocytochemistry/ Immunofluorescence - Anti-PCSK9 antibody (ab31762)

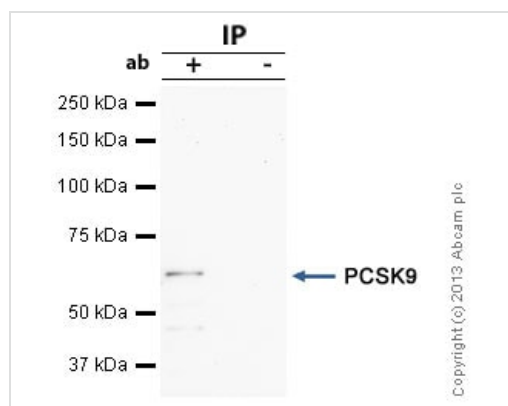
ICC/IF image of ab31762 stained PC12 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab31762 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit ([ab96899](#)) IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PCSK9 antibody (ab31762)

IHC image of ab31762 staining in mouse large intestine formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol B. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab31762, 5µg/ml, for 15 mins at room temperature. A goat anti-rabbit biotinylated secondary antibody was used to detect the primary, and visualized using an HRP conjugated ABC system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunoprecipitation - Anti-PCSK9 antibody (ab31762)

PCSK9 was immunoprecipitated using 0.5mg Mouse Liver tissue, 5µg of Rabbit polyclonal to PCSK9 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, Mouse Liver tissue lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab31762.

Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) ([ab99697](#)).

Band: 62kDa; PCSK9

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