

Product datasheet

Anti-PCSK9 antibody [EPR7627(2)] ab181142

Recombinant RabMAb

[7 References](#) [7 Images](#)

Overview

Product name	Anti-PCSK9 antibody [EPR7627(2)]
Description	Rabbit monoclonal [EPR7627(2)] to PCSK9
Host species	Rabbit
Tested applications	Suitable for: IP, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human PCSK9 aa 550-650. The exact sequence is proprietary. Database link: Q8NBP7
Positive control	WB: A431, BxPC-3 and HepG2 whole cell lysate (ab7900) and Human fetal liver tissue lysate. IP: HepG2 whole cell lysate (ab7900).

General notes

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in

our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7627(2)
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab181142** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		1/30 - 1/50.
WB		1/1000 - 1/10000. Detects a band of approximately 62, 78 kDa (predicted molecular weight: 74 kDa).

Target

Function	May be implicated in the differentiation of cortical neurons and may play a role in cholesterol homeostasis.
Tissue specificity	Expressed in neuro-epithelioma, colon carcinoma, hepatic and pancreatic cell lines, and in Schwann cells.
Involvement in disease	Defects in PCSK9 are the cause of familial hypercholesterolemia 3 (FH3) [MIM:603776]. FH3 inheritance is autosomal dominant.

Sequence similarities

Belongs to the peptidase S8 family.
Contains 1 peptidase S8 domain.

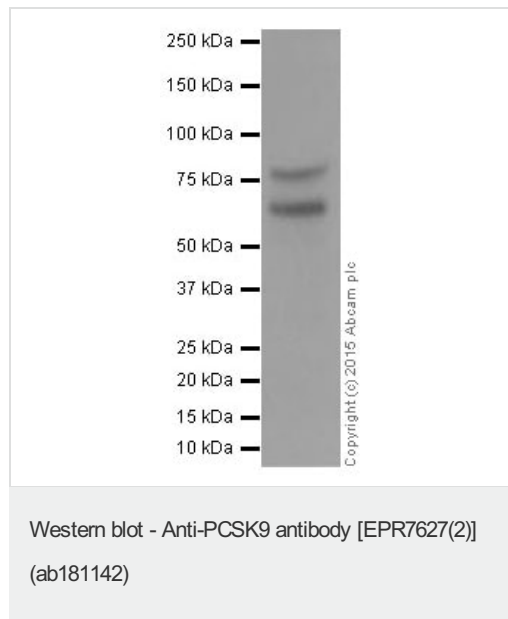
Post-translational modifications

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.

Cellular localization

Secreted.

Images



Anti-PCSK9 antibody [EPR7627(2)] (ab181142) at 1/5000 dilution (purified) + BxPC-3 whole cell lysate at 20 µg

Secondary

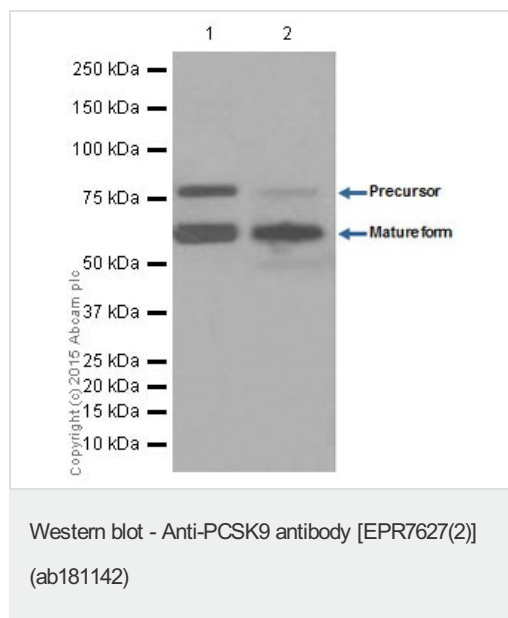
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/5000 dilution

Predicted band size: 74 kDa

Observed band size: 62,78 kDa

[why is the actual band size different from the predicted?](#)

Blocking and dilution buffer: 5% NFDm/TBST.



All lanes : Anti-PCSK9 antibody [EPR7627(2)] (ab181142) at 1/20000 dilution (purified)

Lane 1 : A431 whole cell lysate

Lane 2 : HepG2 whole cell lysate

Lysates/proteins at 10 µg per lane.

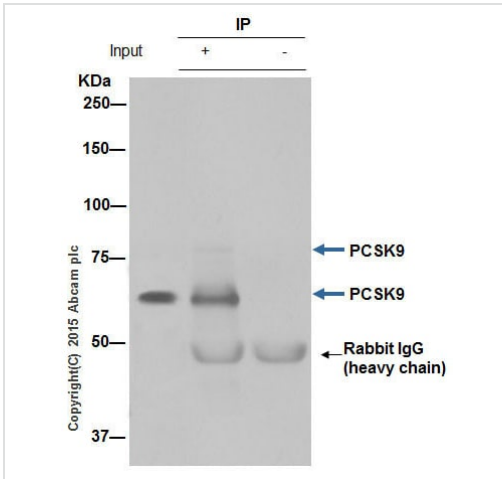
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/50000 dilution

Predicted band size: 74 kDa

Observed band size: 62,78 kDa [why is the actual band size different from the predicted?](#)

Blocking and dilution buffer: 5% NFDm/TBST.



Immunoprecipitation - Anti-PCSK9 antibody [EPR7627(2)] (ab181142)

ab181142 (purified) at 1/50 immunoprecipitating PCSK9 in HepG2 whole cell lysate.

Lane 1 (input): HepG2 whole cell lysate (10µg)

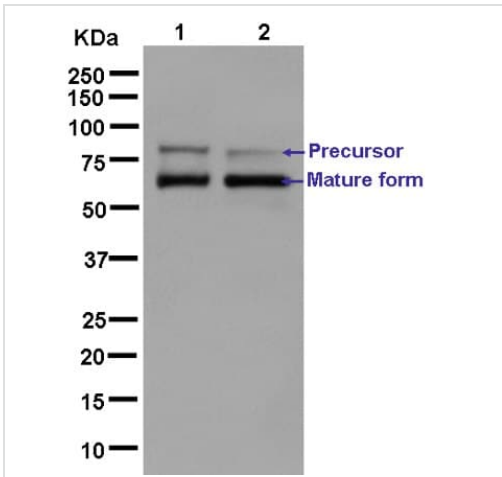
Lane 2 (+): ab181142 + HepG2 whole cell lysate.

Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab181142 in HepG2 whole cell lysate.

For western blotting, a HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the secondary antibody (1/1500).

Blocking buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm /TBST.



Western blot - Anti-PCSK9 antibody [EPR7627(2)] (ab181142)

All lanes : Anti-PCSK9 antibody [EPR7627(2)] (ab181142) at 1/10000 dilution (unpurified)

Lane 1 : A431 (Human epidermoid carcinoma cell line) cell lysate

Lane 2 : HepG2 (Human liver hepatocellular carcinoma cell line) cell lysate

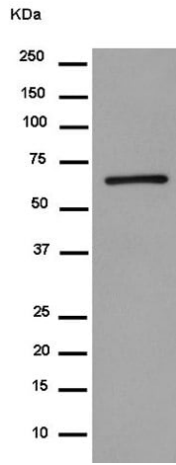
Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 74 kDa

Observed band size: 62,78 kDa [why is the actual band size different from the predicted?](#)



Western blot - Anti-PCSK9 antibody [EPR7627(2)] (ab181142)

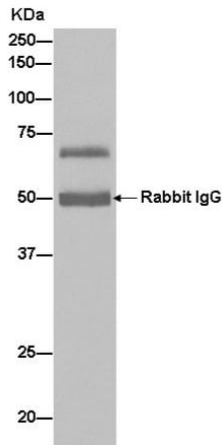
Anti-PCSK9 antibody [EPR7627(2)] (ab181142) at 1/2000 dilution (unpurified) + Human fetal liver lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 74 kDa

Observed band size: 62 kDa [why is the actual band size different from the predicted?](#)




Immunoprecipitation - Anti-PCSK9 antibody [EPR7627(2)] (ab181142)

Western blot analysis of PCSK9 in HepG2 cell

lysate immunoprecipitated using unpurified ab181142 at a dilution of 1/50.

Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution.

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-PCSK9 antibody [EPR7627(2)] (ab181142)

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- We investigate all quality concerns to ensure our products perform to the highest standards

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