

## Product datasheet

# Anti-Seladin 1 antibody [EPR10743] ab181062

KO VALIDATED

Recombinant

RabMAb

[2 References](#) [3 Images](#)

### Overview

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<b>Product name</b>	Anti-Seladin 1 antibody [EPR10743]
<b>Description</b>	Rabbit monoclonal [EPR10743] to Seladin 1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: A431, A375 and HepG2 cell lysate.
<b>General notes</b>	<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>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR10743
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab181062 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
WB		1/1000 - 1/2000. Predicted molecular weight: 60 kDa.

## Target

### Function

Catalyzes the reduction of the delta-24 double bond of sterol intermediates. Protects cells from oxidative stress by reducing caspase 3 activity during apoptosis induced by oxidative stress. Also protects against amyloid-beta peptide-induced apoptosis.

### Tissue specificity

Highly expressed in brain and adrenal gland with moderate expression in liver, lung, spleen, prostate and spinal cord. Low expression in heart, uterus and prostate. Undetectable in blood cells. In the brain, strongly expressed in cortical regions, substantia nigra, caudate nucleus, hippocampus, medulla oblongata and pons. In brains affected by Alzheimer disease, expression in the inferior temporal lobe is substantially lower than in the frontal cortex.

### Pathway

Steroid biosynthesis; cholesterol biosynthesis.

### Involvement in disease

Desmosterolosis (DESMOS) [MIM:602398]: Rare autosomal recessive disorder characterized by multiple congenital anomalies and elevated levels of the cholesterol precursor desmosterol in plasma, tissue, and cultured cells. Note=The disease is caused by mutations affecting the gene represented in this entry.

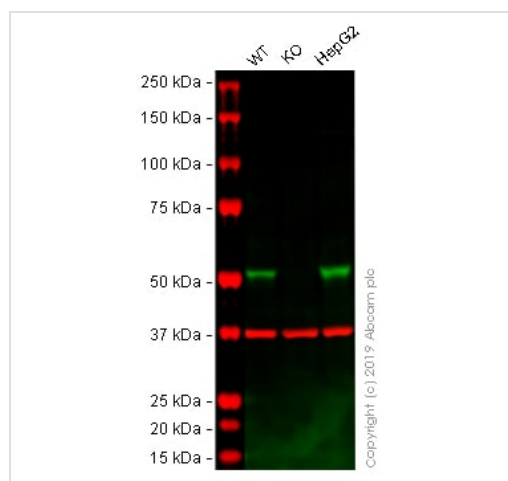
### Sequence similarities

Belongs to the FAD-binding oxidoreductase/transferase type 4 family.  
Contains 1 FAD-binding PCMH-type domain.

### Cellular localization

Endoplasmic reticulum membrane. Golgi apparatus membrane.

## Images



Western blot - Anti-Seladin 1 antibody [EPR10743] (ab181062)

**All lanes** : Anti-Seladin 1 antibody [EPR10743] (ab181062) at 1/2000 dilution

**Lane 1** : Wild-type A431 whole cell lysate

**Lane 2** : DHCR24 knockout A431 whole cell lysate

**Lane 3** : HepG2 whole cell lysate

Lysates/proteins at 20 µg per lane.

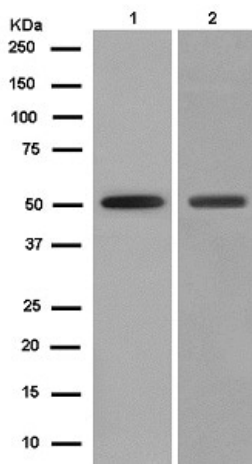
Performed under reducing conditions.

**Predicted band size:** 60 kDa

**Observed band size:** 51 kDa

**Lanes 1 - 3:** Merged signal (red and green). Green - ab181062 observed at 51 kDa. Red - loading control, **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

ab181062 was shown to react with DHCR24 in A431 wild-type cells in Western blot. Loss of signal was observed when DHCR24 knockout sample was used. A431 wild-type and DHCR24 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% Milk in TBS-T (0.1% Tween®) before incubation with ab181062 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4°C at a 1 in 2000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Seladin 1 antibody [EPR10743] (ab181062)

**All lanes :** Anti-Seladin 1 antibody [EPR10743] (ab181062) at 1/1000 dilution

**Lane 1 :** A375 cell lysate

**Lane 2 :** HepG2 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:** 60 kDa

Blocking/ Dilution buffer: 5% NFDM /TBST.

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-Seladin 1 antibody [EPR10743] (ab181062)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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