


Product datasheet

Anti-Seladin 1 antibody ab137845

1 References 4 Images

Overview

Product name	Anti-Seladin 1 antibody
Description	Rabbit polyclonal to Seladin 1
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, IHC-P
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Cow, Pig 
Immunogen	Recombinant fragment, corresponding to a region within amino acids 55-358 of Human Seladin 1 (UniProt ID: Q15392).
Positive control	A431, H1299 and mouse brain lysates; HeLa cell; SW480 xenograft
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>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.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>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.</p> <p>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.</p> <p>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.</p>

Properties

Form	Liquid
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Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab137845** in the following tested applications.

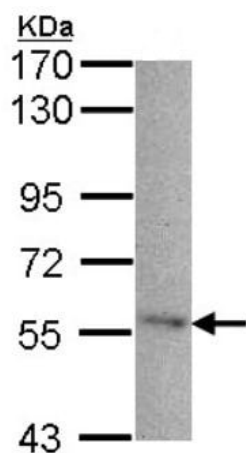
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 60 kDa.
ICC/IF		1/100 - 1/1000.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Antigen retrieval using heat mediated Tris/EDTA buffer (pH 8.0) is also possible.

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

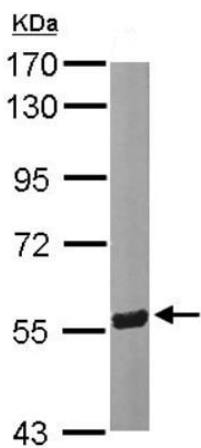


Western blot - Anti-Seladin 1 antibody (ab137845)

Anti-Seladin 1 antibody (ab137845) at 1/1000 dilution + A431 whole cell lysate at 30 µg

Predicted band size: 60 kDa

7.5% SDS PAGE

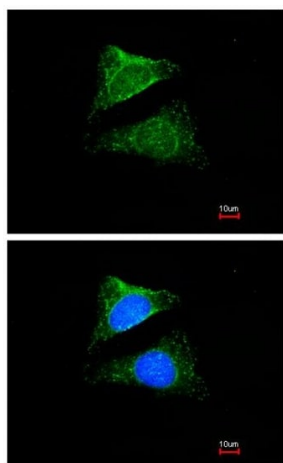


Western blot - Anti-Seladin 1 antibody (ab137845)

Anti-Seladin 1 antibody (ab137845) at 1/1000 dilution + mouse brain whole cell lysate at 50 µg

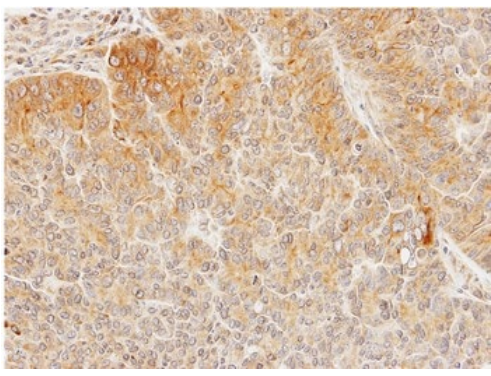
Predicted band size: 60 kDa

7.5% SDS PAGE



Immunocytochemistry/ Immunofluorescence - Anti-Seladin 1 antibody (ab137845)

Immunofluorescence analysis of paraformaldehyde fixed HeLa cell labelling Seladin 1 with ab137845 at a 1/200 dilution. Lower panel merged with DNA probe.



Immunohistochemical analysis of paraffin embedded SW480 xenograft labelling Seladin 1 with ab137845 at a 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Seladin 1 antibody (ab137845)

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