


Product datasheet

Anti-Acetyl Coenzyme A Carboxylase antibody - C-terminal ab226891

[4 Images](#)

Overview

Product name	Anti-Acetyl Coenzyme A Carboxylase antibody - C-terminal
Description	Rabbit polyclonal to Acetyl Coenzyme A Carboxylase - C-terminal
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Sheep, Cow, Pig, Rhesus monkey 
Immunogen	Recombinant fragment within Human Acetyl Coenzyme A carboxylase alpha (C terminal). The exact sequence is proprietary. Database link: Q13085
Positive control	ICC/IF: HeLa cells. WB: HEK-293T, A431, HeLa and HepG2 whole cell extracts. IHC-P: Mouse cervix tissue; Rat liver tissue.
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
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	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 **ab226891** in the following tested applications.

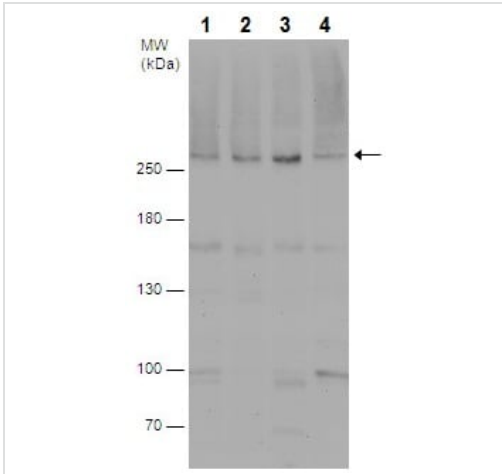
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 265 kDa.
IHC-P		1/100 - 1/1000.
ICC/IF		1/100 - 1/1000.

Target

Function	Catalyzes the rate-limiting reaction in the biogenesis of long-chain fatty acids. Carries out three functions: biotin carboxyl carrier protein, biotin carboxylase and carboxyltransferase.
Tissue specificity	Expressed in brain, placental, skeletal muscle, renal, pancreatic and adipose tissues; expressed at low level in pulmonary tissue; not detected in the liver.
Pathway	Lipid metabolism; malonyl-CoA biosynthesis; malonyl-CoA from acetyl-CoA: step 1/1.
Involvement in disease	Acetyl-CoA carboxylase 1 deficiency
Sequence similarities	Contains 1 ATP-grasp domain. Contains 1 biotin carboxylation domain. Contains 1 biotinyl-binding domain. Contains 1 carboxyltransferase domain.
Post-translational modifications	Phosphorylation on Ser-1263 is required for interaction with BRCA1.
Cellular localization	Cytoplasm.

Images



Western blot - Anti-Acetyl Coenzyme A Carboxylase antibody - C-terminal (ab226891)

All lanes : Anti-Acetyl Coenzyme A Carboxylase antibody - C-terminal (ab226891) at 1/1000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract

Lane 2 : A431 (human epidermoid carcinoma cell line) whole cell extract

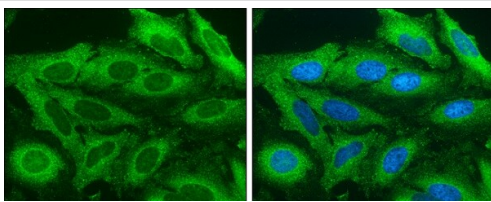
Lane 3 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract

Lane 4 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell extract

Lysates/proteins at 30 µg per lane.

Predicted band size: 265 kDa

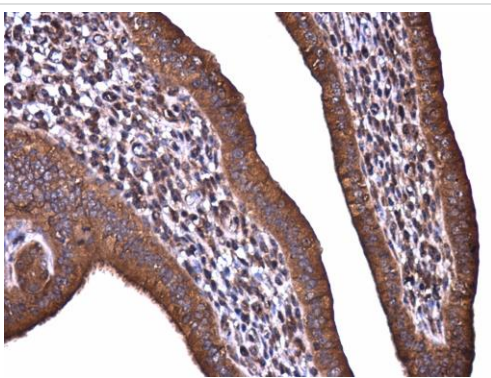
5% SDS-PAGE gel.



Immunocytochemistry/ Immunofluorescence - Anti-Acetyl Coenzyme A Carboxylase antibody - C-terminal (ab226891)

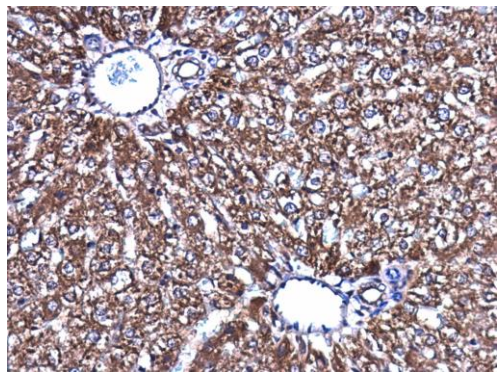
HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for Acetyl Coenzyme A carboxylase (green) using ab226891 at 1/500 dilution in ICC/IF. Cells were fixed in 4% paraformaldehyde at RT for 15 minutes.

Blue: Hoechst 33342 staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Acetyl Coenzyme A Carboxylase antibody - C-terminal (ab226891)

Paraffin-embedded mouse cervix tissue stained for Acetyl Coenzyme A carboxylase using ab226891 at 1/500 dilution in immunohistochemical analysis.



Paraffin-embedded rat liver tissue stained for Acetyl Coenzyme A carboxylase using ab226891 at 1/500 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Acetyl Coenzyme A Carboxylase antibody - C-terminal (ab226891)

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

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