


Product datasheet

Anti-OXCT1/SCOT antibody ab105320

★★★★★ 1 Abreviews 4 References 3 Images

Overview

Product name	Anti-OXCT1/SCOT antibody
Description	Rabbit polyclonal to OXCT1/SCOT
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Recombinant fragment corresponding to Human OXCT1/SCOT aa 171-434. (BC009001)
Positive control	Human fetal heart and brain lysates; Human fetal kidney tissue.
General notes	<p>Protein previously labeled as OXCT1.</p> <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	Lyophilized:Reconstitute in 200ul sterile water
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: 0.1% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab105320** in the following tested applications.

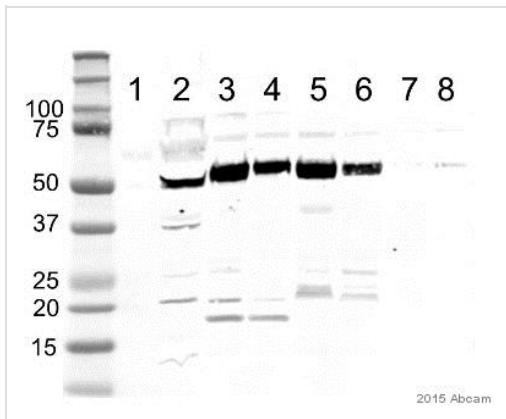
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★	1/500 - 1/1000. Predicted molecular weight: 56 kDa.
IHC-P		1/100 - 1/500.

Target

Function	Key enzyme for ketone body catabolism. Transfers the CoA moiety from succinate to acetoacetate. Formation of the enzyme-CoA intermediate proceeds via an unstable anhydride species formed between the carboxylate groups of the enzyme and substrate.
Tissue specificity	Abundant in heart, followed in order by kidney, brain, and muscle, whereas in liver it is undetectable; also detectable in leukocytes and fibroblasts.
Pathway	Ketone metabolism; succinyl-CoA degradation; acetoacetyl-CoA from succinyl-CoA: step 1/1.
Involvement in disease	Succinyl-CoA:3-oxoacid CoA transferase deficiency
Sequence similarities	Belongs to the 3-oxoacid CoA-transferase family.
Cellular localization	Mitochondrion matrix.

Images



Western blot - Anti-OXCT1/SCOT antibody

(ab105320)

Image is courtesy of an AbReview submitted by Svitlana Yablonska.

All lanes : Anti-OXCT1/SCOT antibody (ab105320) at 1/1000 dilution

Lane 1 : HEK293 whole cell lysate with SEA BLOCK blocking buffer

Lane 2 : Mitochondria isolated from HEK293 cells with SEA BLOCK blocking buffer

Lane 3 : Mitochondria isolated from non-synaptosomal human brain tissue. with SEA BLOCK blocking buffer

Lane 4 : Mitochondria isolated from synaptosomal human neural tissue. with SEA BLOCK blocking buffer

Lane 5 : Non-synaptosomal murine brain mitochondria (-ve control) with SEA BLOCK blocking buffer

Lane 6 : Synaptosomal murine neural mitochondria (-ve control) with SEA BLOCK blocking buffer

Lane 7 : STHdh-Q7/Q7 mitochondria (-ve control) with SEA BLOCK blocking buffer

Lane 8 : STHdh-Q111/Q111 mitochondria (-ve control) with SEA BLOCK blocking buffer

Lysates/proteins at 20 µg per lane.

Blocking peptides at 100 % per lane.

Secondary

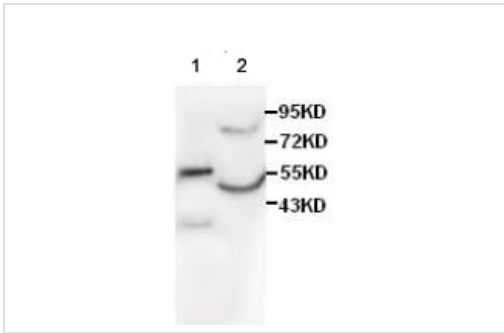
All lanes : Goat anti-rabbit IRDye® 800CW at 1/30000 dilution

Performed under reducing conditions.

Predicted band size: 56 kDa

Additional bands at: 20 kDa (possible non-specific binding), 25 kDa (possible non-specific binding), 52 kDa (possible post-translational modification), 70 kDa (possible non-specific binding)

Exposure time: 5 minutes



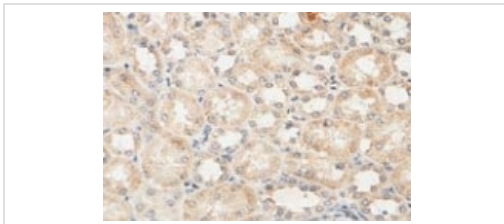
Western blot - Anti-OXCT1/SCOT antibody
(ab105320)

All lanes : Anti-OXCT1/SCOT antibody (ab105320) at 1/500 dilution

Lane 1 : Human fetal heart lysate

Lane 2 : Human fetal brain lysate

Predicted band size: 56 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OXCT1/SCOT antibody
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ab105320 at 1/100 dilution staining OXCT1/SCOT in Human fetal kidney tissue

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

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