


Anti-OXCT1/SCOT antibody ab224250

敲除 验证

[1 References](#) [8 图像](#)

概述

产品名称	Anti-OXCT1/SCOT抗体
描述	兔多克隆抗体to OXCT1/SCOT
宿主	Rabbit
经测试应用	适用于: IHC-P, WB, ICC/IF
种属反应性	与反应: Mouse, Rat, Human 预测可用于: Pig 
免疫原	Recombinant fragment corresponding to Human OXCT1/SCOT aa 50-250. Database link: P55809 Run BLAST with Run BLAST with
阳性对照	WB: HeLa, NIH/3T3, Jurkat and NBT-II cell lysates; human liver, heart, testis and kidney tissue lysates. IHC-P: Human heart muscle tissue. ICC/IF: A431 cells.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol, PBS
纯度	Immunogen affinity purified
克隆	多克隆

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab224250于以下的经测试应用

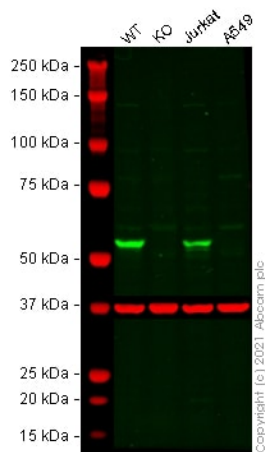
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		1/200 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use a concentration of 0.04 - 0.4 µg/ml. Predicted molecular weight: 56 kDa.
ICC/IF		Use a concentration of 0.25 - 2 µg/ml. Fixation/Permeabilization: PFA/Triton X-100.

靶标

功能	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.
组织特异性	Abundant in heart, followed in order by kidney, brain, and muscle, whereas in liver it is undetectable; also detectable in leukocytes and fibroblasts.
通路	Ketone metabolism; succinyl-CoA degradation; acetoacetyl-CoA from succinyl-CoA: step 1/1.
疾病相关	Succinyl-CoA:3-oxoacid CoA transferase deficiency
序列相似性	Belongs to the 3-oxoacid CoA-transferase family.
细胞定位	Mitochondrion matrix.

图片



Western blot - Anti-OXCT1/SCOT antibody
(ab224250)

All lanes : Anti-OXCT1/SCOT antibody (ab224250) at 0.04 µg/ml

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : OXCT1 knockout HeLa cell lysate

Lane 3 : Jurkat cell lysate

Lane 4 : A549 cell lysate

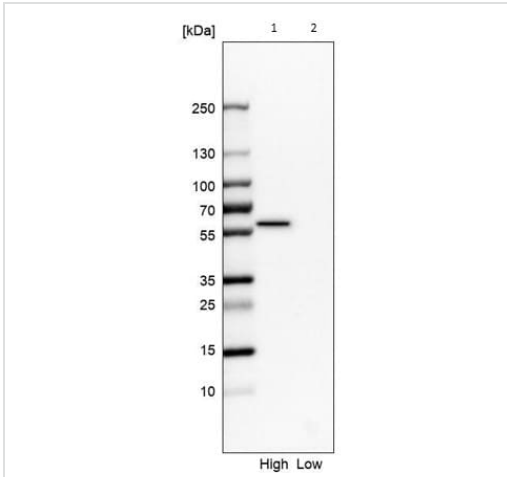
Lysates/proteins at 18 µg per lane.

Performed under reducing conditions.

Predicted band size: 56 kDa

Observed band size: 56 kDa

False colour image of Western blot: Anti-OXCT1/SCOT antibody staining at 0.04 µg/ml, shown in green; Mouse anti-GAPDH antibody [6C5] ([ab8245](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab224250 was shown to bind specifically to OXCT1/SCOT. A band was observed at 56 kDa in wild-type HeLa cell lysates with no signal observed at this size in OXCT1 knockout cell line [ab265358](#) (knockout cell lysate [ab258557](#)). To generate this image, wild-type and OXCT1 knockout HeLa cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween[®] 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye[®] 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye[®] 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.



Western blot - Anti-OXCT1/SCOT antibody (ab224250)

Lane 1 : ab224250 at 0.4 µg/ml

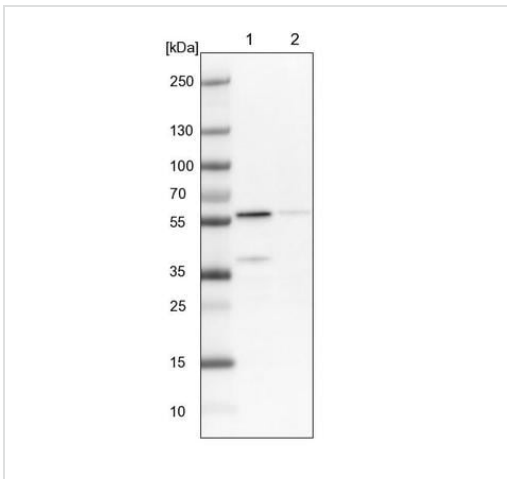
Lane 2 : Anti-OXCT1/SCOT antibody (ab224250) at 0.4 µg/ml

Lane 1 : HeLa (Human epithelial cell line from cervix adenocarcinoma) lysate

Lane 2 : A549 (Human lung carcinoma cell line) lysate

Predicted band size: 56 kDa

Loading control: Anti-COX4I1.



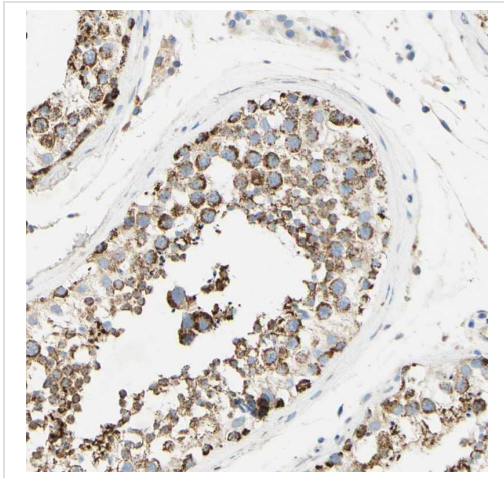
Western blot - Anti-OXCT1/SCOT antibody (ab224250)

All lanes : Anti-OXCT1/SCOT antibody (ab224250) at 1/100 dilution

Lane 1 : NIH/3T3 (mouse embryo fibroblast cell line) cell lysate

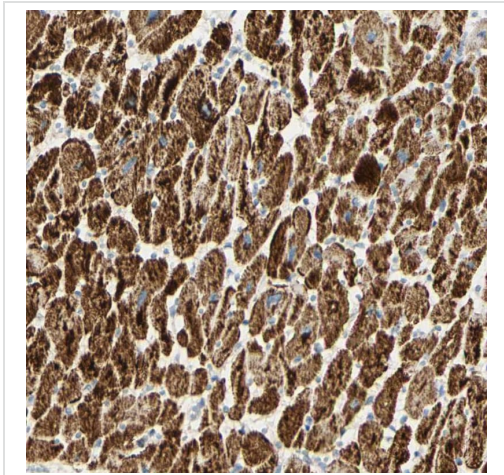
Lane 2 : NBT-II (rat Wistar bladder tumor cell line) cell lysate

Predicted band size: 56 kDa



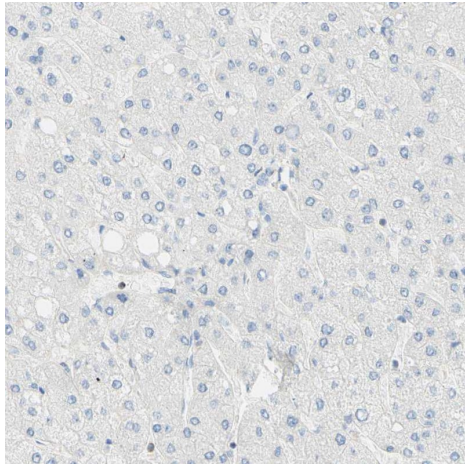
Paraffin-embedded human testis stained for OXCT1 using ab224250 at 1/200 dilution in immunohistochemical analysis. Shows strong cytoplasmic positivity in cells in seminiferous ducts.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OXCT1/SCOT antibody (ab224250)



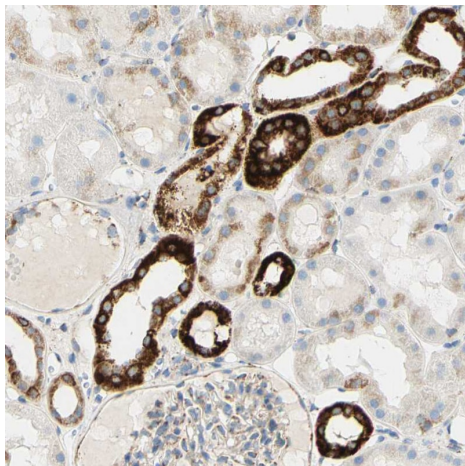
Paraffin-embedded human heart stained for OXCT1 using ab224250 at 1/200 dilution in immunohistochemical analysis. Shows strong cytoplasmic positivity in cardiomyocytes.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OXCT1/SCOT antibody (ab224250)



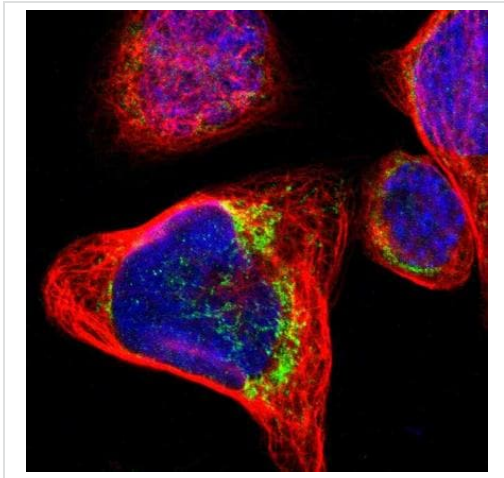
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OXCT1/SCOT antibody (ab224250)

Paraffin-embedded human liver stained for OXCT1 using ab224250 at 1/200 dilution in immunohistochemical analysis. Shows no positivity in hepatocytes as expected.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OXCT1/SCOT antibody (ab224250)

Paraffin-embedded human kidney stained for OXCT1 using ab224250 at 1/200 dilution in immunohistochemical analysis. Shows strong cytoplasmic positivity in cells in tubules.



Immunocytochemistry/ Immunofluorescence - Anti-OXCT1/SCOT antibody (ab224250)

PFA-fixed, Triton X-100 permeabilized A431 (human epidermoid carcinoma cell line) cells stained for OXCT1/SCOT (green) using ab224250 (4 µg/ml) in ICC/IF.

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