


Anti-ATP citrate lyase antibody ab157098

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Overview

Product name	Anti-ATP citrate lyase antibody
Description	Rabbit polyclonal to ATP citrate lyase
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	<p>Reacts with: Mouse, Human</p> <p>Predicted to work with: Rat, Sheep, Rabbit, Horse, Chicken, Guinea pig, Cow, Dog, Turkey, Pig, Xenopus laevis, Caenorhabditis elegans, Chimpanzee, Zebrafish, Rhesus monkey, Gorilla, Xenopus tropicalis </p>
Immunogen	<p>Synthetic peptide corresponding to Human ATP citrate lyase aa 350-450.</p> <p>Database link: P53396</p>
General notes	<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>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	<p>pH: 7</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituent: 99% Tris citrate/phosphate</p>
Purity	pH 7-8
Clonality	Immunogen affinity purified
Isotype	Polyclonal
	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab157098 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 - 1/5000. Predicted molecular weight: 120 kDa.

Target

Function

ATP-citrate synthase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. Has a central role in de novo lipid synthesis. In nervous tissue it may be involved in the biosynthesis of acetylcholine.

Sequence similarities

In the N-terminal section; belongs to the succinate/malate CoA ligase beta subunit family.
In the C-terminal section; belongs to the succinate/malate CoA ligase alpha subunit family.
Contains 1 ATP-grasp domain.

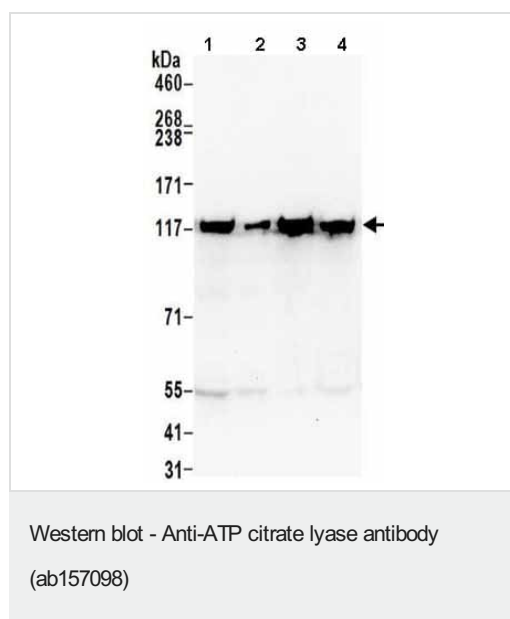
Post-translational modifications

ISGylated.
Acetylated at Lys-540, Lys-546 and Lys-554 by KAT2B/PCAF. Acetylation is promoted by glucose and stabilizes the protein, probably by preventing ubiquitination at the same sites. Acetylation promotes de novo lipid synthesis. Deacetylated by SIRT2.
Ubiquitinated at Lys-540, Lys-546 and Lys-554 by UBR4, leading to its degradation.
Ubiquitination is probably inhibited by acetylation at same site.

Cellular localization

Cytoplasm.

Images



All lanes : Anti-ATP citrate lyase antibody (ab157098) at 0.4 µg/ml

Lane 1 : Jurkat whole cell lysate at 50 µg

Lane 2 : Jurkat whole cell lysate at 15 µg

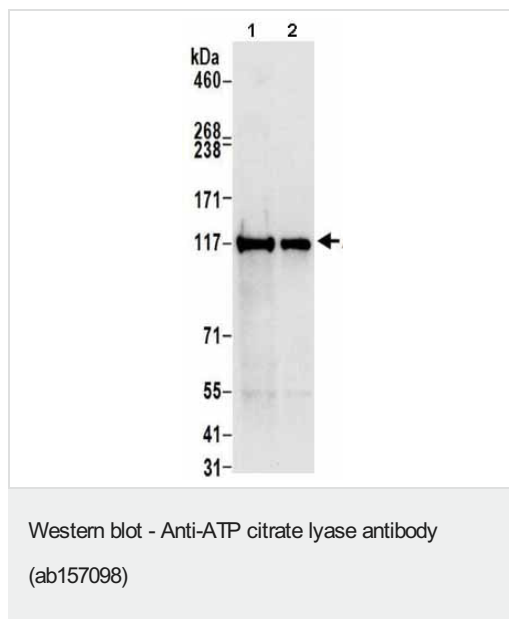
Lane 3 : HeLa whole cell lysate at 50 µg

Lane 4 : 293T whole cell lysate at 50 µg

Developed using the ECL technique.

Predicted band size: 120 kDa

Exposure time: 30 seconds



All lanes : Anti-ATP citrate lyase antibody (ab157098) at 0.4 µg/ml

Lane 1 : NIH3T3 whole cell lysate at 50 µg

Lane 2 : NIH3T3 whole cell lysate at 15 µg

Developed using the ECL technique.

Predicted band size: 120 kDa

Exposure time: 10 seconds

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

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