

Anti-ATP citrate lyase (phospho T447 + S451) antibody [EP737Y] ab53007

 RabMAB

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概述

产品名称	Anti-ATP citrate lyase (phospho T447 + S451)抗体[EP737Y]
描述	兔单克隆抗体[EP737Y] to ATP citrate lyase (phospho T447 + S451)
宿主	Rabbit
特异性	ab53007 only detects ATP-citrate lyase phosphorylated on Threonine 447 and Serine 451.
经测试应用	适用于: WB 不适用于: Flow Cyt, ICC/IF or IP
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Untreated and insulin treated NIH/3T3, NIH/3T3, HeLa and C6 whole cell lysates.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAB [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAB[®] patents .

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: 7.2 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS
纯度	Protein A purified
克隆	单克隆

克隆编号	EP737Y
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab53007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
WB		1/1000. Detects a band of approximately 100 kDa (predicted molecular weight: 122 kDa).

应用说明 Is unsuitable for Flow Cyt, ICC/IF or IP.

靶标

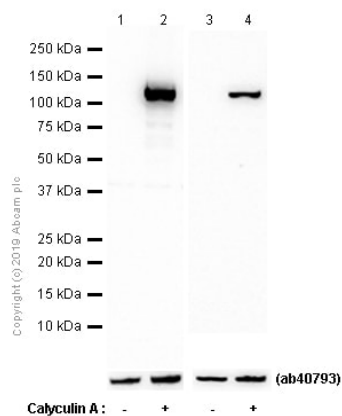
功能	ATP-citrate synthase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. Has a central role in de novo lipid synthesis. In nervous tissue it may be involved in the biosynthesis of acetylcholine.
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序列相似性	<p>In the N-terminal section; belongs to the succinate/malate CoA ligase beta subunit family.</p> <p>In the C-terminal section; belongs to the succinate/malate CoA ligase alpha subunit family.</p> <p>Contains 1 ATP-grasp domain.</p>
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翻译后修饰	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.

细胞定位	Cytoplasm.
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图片



Western blot - Anti-ATP citrate lyase (phospho T447 + S451) antibody [EP737Y] (ab53007)

All lanes : Anti-ATP citrate lyase (phospho T447 + S451) antibody [EP737Y] (ab53007) at 1/1000 dilution (Purified)

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

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) treated with 100nM Calyculin A for 30 minutes whole cell lysate

Lane 3 : NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate

Lane 4 : NIH/3T3 (Mouse embryonic fibroblast) treated with 100nM Calyculin A for 15 minutes whole cell lysate

Lysates/proteins at 20 µg per lane.

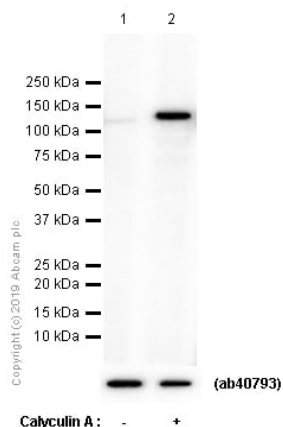
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 122 kDa

Observed band size: 122 kDa

Blocking/Diluting Buffer and concentration: 5% NFDM/TBST



Western blot - Anti-ATP citrate lyase (phospho T447 + S451) antibody [EP737Y] (ab53007)

All lanes : Anti-ATP citrate lyase (phospho T447 + S451) antibody [EP737Y] (ab53007) at 1/1000 dilution (Purified)

Lane 1 : C6 (Rat glial tumor glial cell) whole cell lysate

Lane 2 : C6 (Rat glial tumor glial cell) treated with 100ng Calyculin A for 60 minutes whole cell lysate

Lysates/proteins at 15 µg per lane.

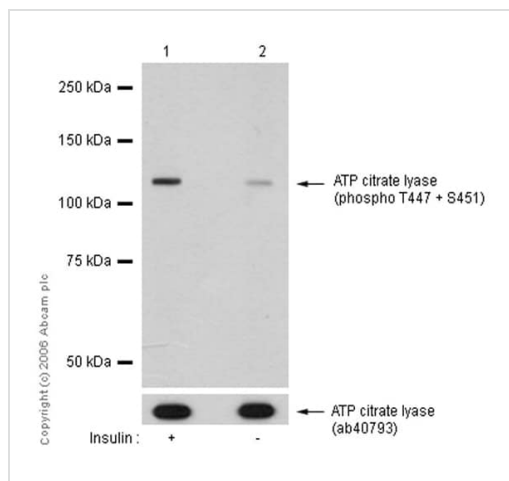
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 122 kDa

Observed band size: 122 kDa

Blocking/Diluting Buffer and concentration: 5% NFDM/TBST



Western blot - Anti-ATP citrate lyase (phospho T447 + S451) antibody [EP737Y] (ab53007)

All lanes : Anti-ATP citrate lyase (phospho T447 + S451) antibody [EP737Y] (ab53007) at 1/1000 dilution (unpurified)

Lane 1 : NIH/3T3 (Mouse embryonic fibroblast cell line) treated with insulin whole cell lysate

Lane 2 : Untreated NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/2000 dilution

Predicted band size: 122 kDa

Exposure time: 3 minutes

Blocking and diluting buffer: 5% NFDM/TBST

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

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

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