

## Product datasheet

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

RabMAb<sup>®</sup>

★★★★★ 1 Abreviews 2 References 2 图像

### 概述

<b>产品名称</b>	Anti-ATP citrate lyase (phospho T447 + S451)抗体[EP737Y]
<b>描述</b>	兔单克隆抗体[EP737Y] to ATP citrate lyase (phospho T447 + S451)
<b>特异性</b>	ab53007 only detects ATP-citrate lyase phosphorylated on Threonine 447 and Serine 451.
<b>经测试应用</b>	<b>适用于:</b> WB, ICC/IF, IP <b>不适用于:</b> Flow Cyt or IHC-P
<b>种属反应性</b>	<b>与反应:</b> Mouse, Rat, Human
<b>免疫原</b>	A synthetic phospho-peptide corresponding to residues surrounding Thr447 and Ser451 of human ATP-citrate (pro-S) lyase.
<b>阳性对照</b>	3T3 cytoplasmic cell lysate HeLa cells
<b>常规说明</b>	This product is a recombinant rabbit monoclonal antibody.

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#)

### 性能

<b>形式</b>	Liquid
<b>存放说明</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>存储溶液</b>	PBS 49%,Sodium azide 0.01%,Glycerol 50%,BSA 0.05%
<b>纯度</b>	Tissue culture supernatant
<b>克隆</b>	单克隆
<b>克隆编号</b>	EP737Y
<b>同种型</b>	IgG

### 应用

Our [Abpromise guarantee](#) covers the use of **ab53007** in the following tested applications.

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

应用	Ab评论	说明
WB		1/1000. Detects a band of approximately 100 kDa (predicted molecular weight: 122 kDa).
ICC/IF	★★★★★	1/100 - 1/250.
IP		1/10 - 1/100.

**应用说明** Is unsuitable for Flow Cyt or IHC-P.

## 靶标

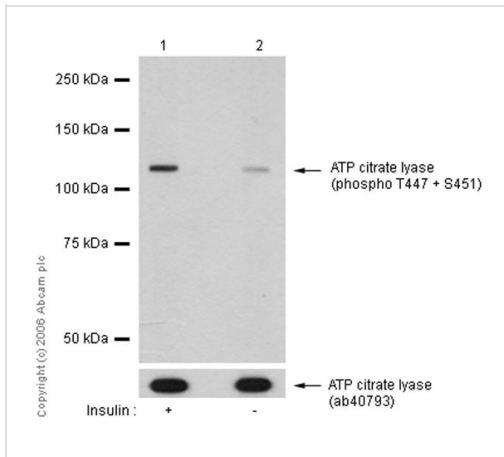
**功能** ATP-citrate synthase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. Has a central role in de novo lipid synthesis. In nervous tissue it may be involved in the biosynthesis of acetylcholine.

**序列相似性** 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.

**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.

## 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

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

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

Lysates/proteins at 20 µg per lane.

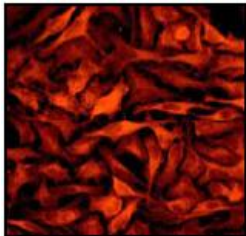
### Secondary

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



Immunocytochemistry/ Immunofluorescence - ATP citrate lyase (phospho T447 + S451) antibody [EP737Y] (ab53007)

ab53007 stained HeLa cells at 1/100-1/250 dilution.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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