

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

リコンビナント RabMAb

[1 Abreviews](#) [4 References](#) [画像数 4](#)

### 製品の概要

製品名	Anti-ATP citrate lyase (phospho T447 + S451) antibody [EP737Y]
製品の詳細	Rabbit monoclonal [EP737Y] to ATP citrate lyase (phospho T447 + S451)
由来種	Rabbit
特異性	ab53007 only detects ATP-citrate lyase phosphorylated on Threonine 447 and Serine 451.
アプリケーション	<b>適用あり:</b> WB <b>適用なし:</b> Flow Cyt, ICC/IF or IP
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Untreated and insulin treated NIH/3T3, NIH/3T3, HeLa and C6 whole cell lysates.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### 製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名 EP737Y  
アイソタイプ IgG

#### アプリケーション

**The Abpromise guarantee** **Abpromise保証は、次のテスト済みアプリケーションにおけるab53007の使用に適用されず**  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 100 kDa (predicted molecular weight: 122 kDa).

**追加情報** Is unsuitable for Flow Cyt, ICC/IF or IP.

#### ターゲット情報

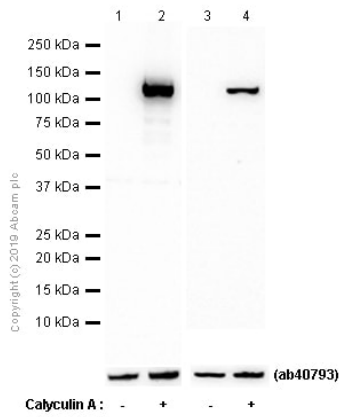
**機能** ATP-citrate synthase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. Has a central role in de novo lipid synthesis. In nervous tissue it may be involved in the biosynthesis of acetylcholine.

**配列類似性** 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.

**翻訳後修飾** 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.

**細胞内局在** Cytoplasm.

#### 画像



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.

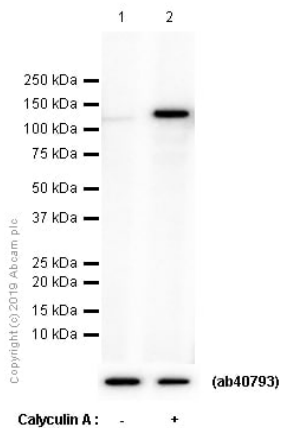
**Secondary**

**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.

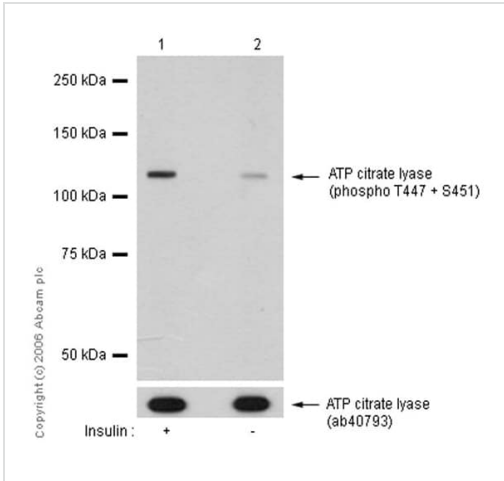
**Secondary**

**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% NFD/MTBST

**Why choose a recombinant antibody?**

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

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

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

**Our Promise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery

- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors