

Product datasheet

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

RabMAb[®]

★★★★★ 1 Abreviews 2 References 2 图像

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)
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, ICC/IF, IP 不适用于: Flow Cyt or IHC-P
种属反应性	与反应: Mouse, Rat, Human
免疫原	A synthetic phospho-peptide corresponding to residues surrounding Thr447 and Ser451 of human ATP-citrate (pro-S) lyase.
阳性对照	3T3 cytoplasmic cell lysate HeLa cells
常规说明	This product is a recombinant rabbit monoclonal antibody.

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 -20°C. Stable for 12 months at -20°C.
存储溶液	PBS 49%,Sodium azide 0.01%,Glycerol 50%,BSA 0.05%
纯度	Tissue culture supernatant
克隆	单克隆
克隆编号	EP737Y
同种型	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

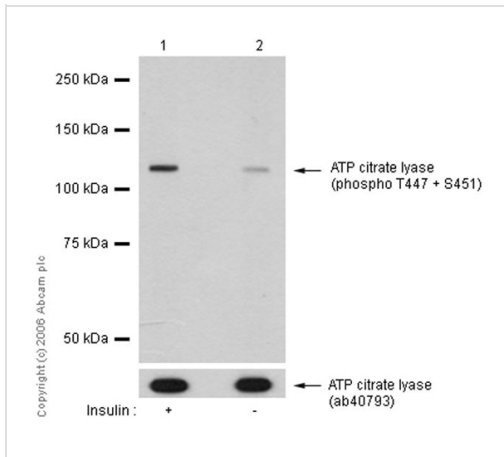
功能 ATP-citrate synthase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. Has a central role in de novo lipid synthesis. In nervous tissue it may be involved in the biosynthesis of acetylcholine.

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.

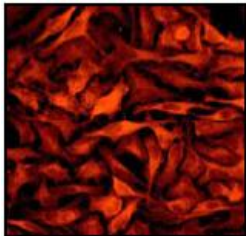
Secondary

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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