

Product datasheet

# Anti-Acetyl Coenzyme A Carboxylase (phospho S221) antibody [EPR3143Y] ab109540

Recombinant RabMAb

3 Images

Overview

<b>Product name</b>	Anti-Acetyl Coenzyme A Carboxylase (phospho S221) antibody [EPR3143Y]
<b>Description</b>	Rabbit monoclonal [EPR3143Y] to Acetyl Coenzyme A Carboxylase (phospho S221)
<b>Specificity</b>	The immunogen used for this product shares 100% homology with ACACB. Cross-reactivity with this protein has not been confirmed experimentally.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP, IHC-P, ICC <b>Unsuitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) corresponding to Human Acetyl Coenzyme A Carboxylase.
<b>Positive control</b>	HeLa cell lysate treated with calyculin A; Human muscles.
<b>General notes</b>	This product is a recombinant rabbit monoclonal antibody.  Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.  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>

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	PBS 49%,Sodium azide 0.01%,Glycerol 50%,BSA 0.05%
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR3143Y
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab109540** in the following tested applications.

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

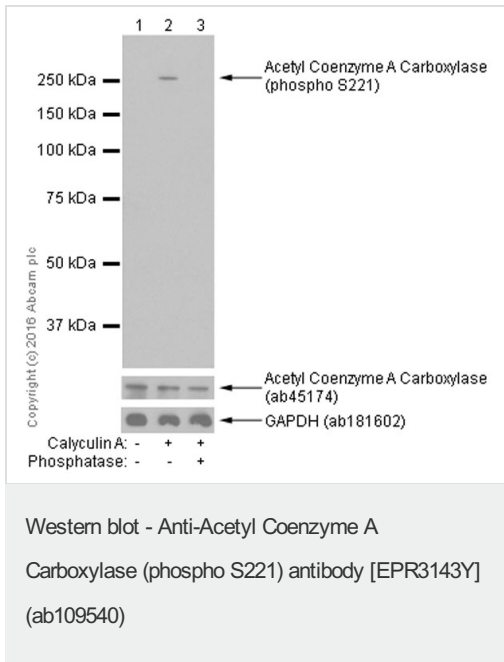
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 277 kDa.
IP		1/10.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC		1/100.

**Application notes** Is unsuitable for Flow Cyt.

## Target

<b>Function</b>	Catalyzes the rate-limiting reaction in the biogenesis of long-chain fatty acids. Carries out three functions: biotin carboxyl carrier protein, biotin carboxylase and carboxyltransferase.
<b>Tissue specificity</b>	Expressed in brain, placental, skeletal muscle, renal, pancreatic and adipose tissues; expressed at low level in pulmonary tissue; not detected in the liver.
<b>Pathway</b>	Lipid metabolism; malonyl-CoA biosynthesis; malonyl-CoA from acetyl-CoA: step 1/1.
<b>Involvement in disease</b>	Acetyl-CoA carboxylase 1 deficiency
<b>Sequence similarities</b>	Contains 1 ATP-grasp domain. Contains 1 biotin carboxylation domain. Contains 1 biotinyl-binding domain. Contains 1 carboxyltransferase domain.
<b>Post-translational modifications</b>	Phosphorylation on Ser-1263 is required for interaction with BRCA1.
<b>Cellular localization</b>	Cytoplasm.

## Images



**All lanes :** Anti-Acetyl Coenzyme A Carboxylase (phospho S221) antibody [EPR3143Y] (ab109540) at 1/1000 dilution

**Lane 1 :** Untreated HeLa (human cervix adenocarcinoma) whole cell lysates

**Lane 2 :** HeLa (human cervix adenocarcinoma) cells were treated with Calyculin A whole cell lysates

**Lane 3 :** HeLa (human cervix adenocarcinoma) cells were treated with Calyculin A whole cell lysates. Then the membrane was incubated with Alkaline phosphatase.

Lysates/proteins at 10 µg per lane.

### Secondary

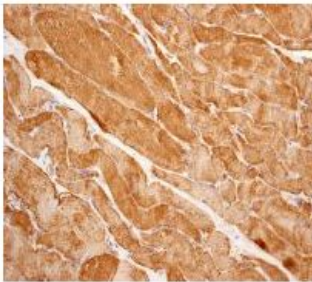
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

**Predicted band size :** 277 kDa

**Observed band size :** 265 kDa

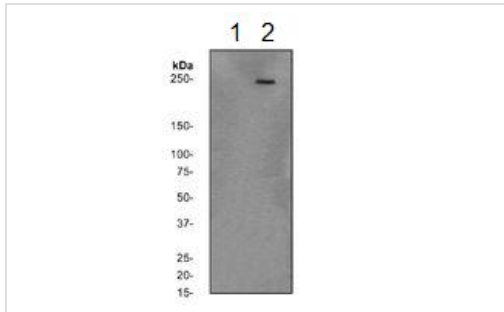
**Exposure time :** 3 minutes

Blocking/Diluting buffer: 5% NFDm/TBST



ab109540, at 1/100 dilution, staining paraffin-embedded Human muscles by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Acetyl Coenzyme A Carboxylase (phospho S221) antibody [EPR3143Y] (ab109540)



Western blot - Acetyl Coenzyme A Carboxylase (phospho S221) antibody [EPR3143Y] (ab109540)

**All lanes :** Anti-Acetyl Coenzyme A Carboxylase (phospho S221) antibody [EPR3143Y] (ab109540) at 1/5000 dilution

**Lane 1 :** HeLa cell lysate, untreated

**Lane 2 :** HeLa cell lysate treated with calyculin A

Lysates/proteins at 10 µg per lane.

#### Secondary

HRP-labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size :** 277 kDa

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

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