

For Research Use Only

# ACC Monoclonal ANTIBODY



Catalog Number: 67373-1-Ig **2 Publications**

## Basic Information

<b>Catalog Number:</b> 67373-1-Ig	<b>GenBank Accession Number:</b> BC137287	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150UL, Concentration: 1000 µg/ml by 31 Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> Full Name: acetyl-Coenzyme A carboxylase alpha	<b>CloneNo.:</b> 1A11G10
<b>Source:</b> Mouse	<b>Calculated MW:</b> 2383 aa, 275 kDa	<b>Recommended Dilutions:</b> WB 1:10000-1:50000 IHC 1:500-1:2000
<b>Isotype:</b> IgG2a	<b>Observed MW:</b> 260-270 kDa	
<b>Immunogen Catalog Number:</b> AG17503		

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

WB

### Species Specificity:

Human, Mouse, Rat

### Cited Species:

human

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

### Positive Controls:

WB: HeLa cells, NIH/3T3 cells, HEK-293 cells, HepG2  
cells, Jurkat cells, HSC-T6 cells

IHC: human breast cancer tissue,

## Background Information

ACACA (Acetyl-CoA carboxylase 1, ACC), also named as ACAC, ACC1 and ACCA, belongs to the biotin containing enzyme family. It catalyzes the synthesis of malonyl-CoA, which is an intermediate substrate playing a pivotal role in the regulation of fatty acid metabolism and energy production. ACACA is involved in the biosynthesis of fatty acids, and malonyl-CoA produced is used as a building block to extend the chain length of fatty acids by fatty acid synthase (FAS) (PMID:19900410). It has 4 isoforms produced by alternative promoter usage with the molecular weight between 260 kDa and 270 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Gengyi Zou	32550907	Theranostics	WB
Shuang Yu	32625104	Front Physiol	WB

## Storage

### Storage:

Store at -20°C.

### Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

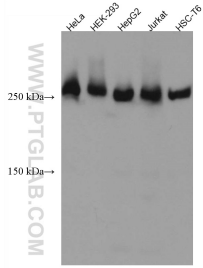
For technical support and original validation data for this product please contact:

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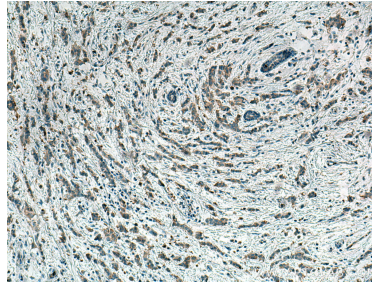
E: proteintech@ptglab.com  
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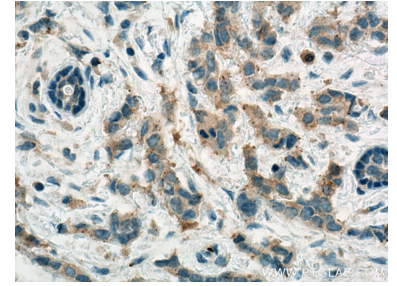
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67373-1-Ig (ACC antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67373-1-Ig (ACC antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 67373-1-Ig (ACC antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).