#### For Research Use Only

# ACC1 Monoclonal antibody

Catalog Number: 67373-1-lg Featured Product 37 Publications

BC137287

GeneID (NCBI):

**UNIPROT ID:** 

Full Name:

Calculated MW: 2383 aa, 275 kDa Observed MW: 250-270 kDa

Q13085

alpha

GenBank Accession Number:

acetyl-Coenzyme A carboxylase



**Basic Information** 

**Applications** 

Catalog Number: 67373-1-lg Concentration:

1000 ug/ml Source: Mouse Isotype: IgG2a

Immunogen Catalog Number:

AG17503

**Tested Applications:** 

WB, IHC, IF/ICC, ELISA **Cited Applications:** 

WB, IHC

Species Specificity: human, mouse, rat Cited Species:

human, mouse, rat, monkey, hamster, goat

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

**Purification Method:** 

Protein A purification CloneNo.:

1A11G10

Recommended Dilutions: WB: 1:10000-1:50000 IHC: 1:500-1:2000 IF/ICC: 1:400-1:1600

Positive Controls:

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

cells, Jurkat cells, HSC-T6 cells IHC: human breast cancer tissue.

IF/ICC : HeLa cells.

## **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
Zhao Yang	36120828	J Biochem Mol Toxicol	WB
Mengqiu Yuan	34472622	EMBO J	WB
Yujie Zhong	36501024	Nutrients	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

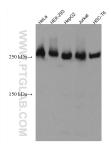
Aliquoting is unnecessary for -20°C storage

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

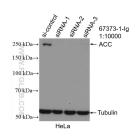
T: 4006900926 E: Proteintech-CN@ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

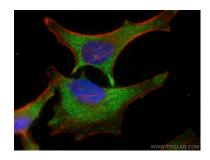
#### **Selected Validation Data**



Various lysates were subjected to SDS PAGE followed by western blot with 67373-1-1g (ACC1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



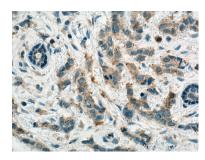
WB result of ACC1 antibody (67373-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACC1 transfected HeLa cells.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using ACC1 antibody (67373-1-lg, Clone: 1A11G10) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 67373-1-Ig (ACC1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 67373-1-Ig (ACC1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).