

For Research Use Only

ACC1 Monoclonal antibody

Catalog Number: 67373-1-Ig

Featured Product

36 Publications



Basic Information

Catalog Number: 67373-1-Ig	GenBank Accession Number: BC137287	Purification Method: Protein A purification
Concentration: 1000 ug/ml	GeneID (NCBI): 31	CloneNo.: 1A11G10
Source: Mouse	UNIPROT ID: Q13085	Recommended Dilutions: WB 1:10000-1:50000 IHC 1:500-1:2000 IF/ICC 1:400-1:1600
Isotype: IgG2a	Full Name: acetyl-Coenzyme A carboxylase alpha	
Immunogen Catalog Number: AG17503	Calculated MW: 2383 aa, 275 kDa	
	Observed MW: 250-270 kDa	

Applications

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

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.
Storage Buffer:
PBS with 0.02% 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:

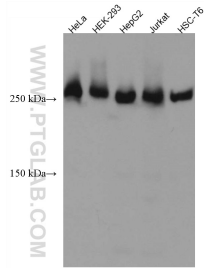
T: 4006900926

E: Proteintech-CN@ptglab.com

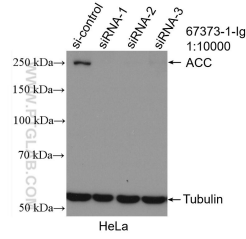
W: ptgcn.com

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

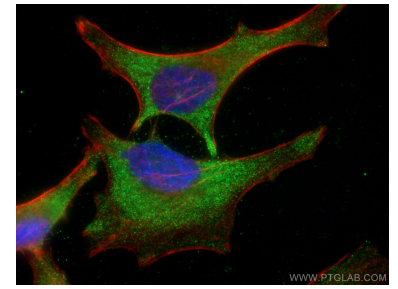
Selected Validation Data



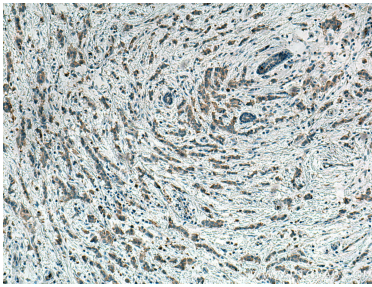
Various lysates were subjected to SDS PAGE followed by western blot with 67373-1-Ig (ACC1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



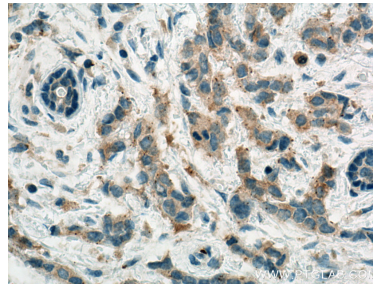
WB result of ACC1 antibody (67373-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACC1 transfected HeLa cells.



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



Immunohistochemical analysis of paraffin-embedded 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 paraffin-embedded 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).