

For Research Use Only

AACS Polyclonal antibody

Catalog Number: 13815-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number:

13815-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 467 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4899

GenBank Accession Number:

BC040490

GeneID (NCBI):

65985

UNIPROT ID:

Q86V21

Full Name:

acetoacetyl-CoA synthetase

Calculated MW:

672 aa, 75 kDa

Observed MW:

67 kDa, 30 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

IHC 1:50-1:500

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

mouse

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 : mouse heart tissue, mouse liver tissue

IHC : human ovary cancer tissue,

IF/ICC : MCF-7 cells,

Background Information

AACS(acetoacetyl-CoA synthetase) is also named as ACSF1 and belongs to the ATP-dependent AMP-binding enzyme family. In mammals, AACS is present in the cytosolic fractions of various tissues, especially lipogenic ones, and acetoacetate is known to be effectively incorporated into cholesterol and fatty acids. These results indicate that AACS may supply acetyl units to cytosolic compartment for cholesterol and/or fatty acid biosynthesis. It has 3 isoforms produced by alternative splicing.

Notable Publications

Author	Pubmed ID	Journal	Application
George D Dalton	34568800	iScience	WB
Faith C Kaluba	39554134	bioRxiv	WB
Eric D Queathem	39026753	bioRxiv	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

*** 20ul sizes contain 0.1% BSA

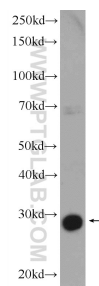
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

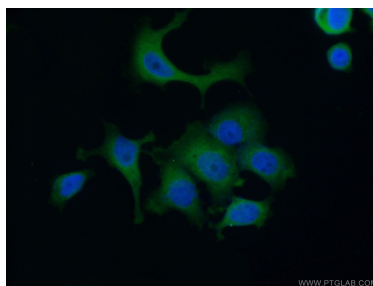
E: proteintech@ptglab.com
W: ptglab.com

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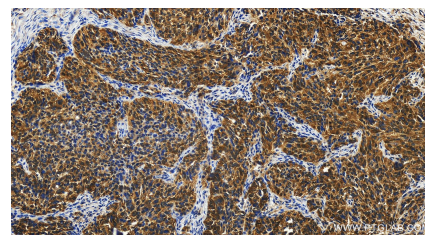
Selected Validation Data



mouse heart tissue were subjected to SDS PAGE followed by western blot with 13815-1-AP (AACS Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of MCF-7 cells using 13815-1-AP (AACS antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 13815-1-AP (AACS antibody) at dilution of 1:100 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).