For Research Use Only

ECHS1 Polyclonal antibody

Catalog Number:11305-1-AP Featured Product 22 Publications

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Basic Information

Catalog Number:
11305-1-AP

Size:
150ul , Concentration: 400 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1842

GenBank Accession Number:
BC008906

GeneID (NCBI):
1892

UNIPROT ID:
P30084

Full Name:
enoyl Coenzyme A hydratase, short chain, 1, mitochondrial

Calculated MW:
31 kDa

Observed MW:
29-31 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:12000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF 1:200-1:800

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, 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 : HepG2 cells, HeLa cells, mouse heart, mouse liver, rat liver

IP : PC-3 cells,

IHC : human prostate cancer tissue, human liver tissue

IF : HeLa cells,

Background Information

Enoyl-coenzyme A hydratase (ECHS1) is a mitochondrial protein which catalyzes the hydration of 2-trans-enoyl-coenzyme A intermediates to L-3-hydroxyacyl-coenzyme A, playing key role in metabolism of fatty acids in mitochondria. ECHS1 is highly expressed in muscle, liver and fibroblasts. Altered expression of ECHS1 has been considered as a characteristic feature of mitochondria dysfunction. (23275097, 23235493)

Notable Publications

Author	Pubmed ID	Journal	Application
Lanaspa Miguel A MA	23152807	PLoS One	WB
Ching-Chou Tsai	32450865	Lipids Health Dis	WB
Bi-Yun Lin	25760819	Mol Med Rep	

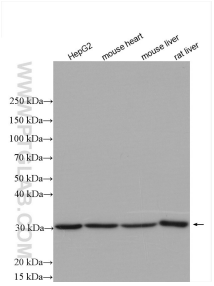
Storage

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

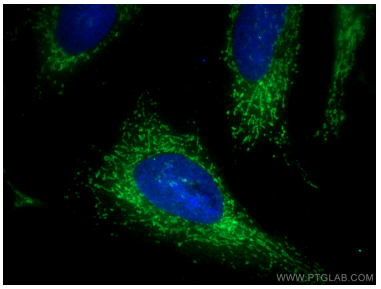
*** 20ul sizes contain 0.1% BSA

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

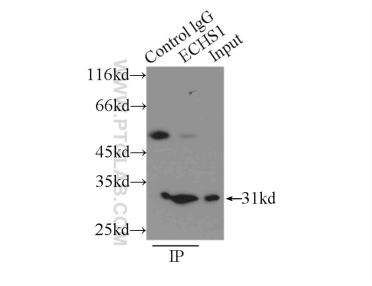
Selected Validation Data



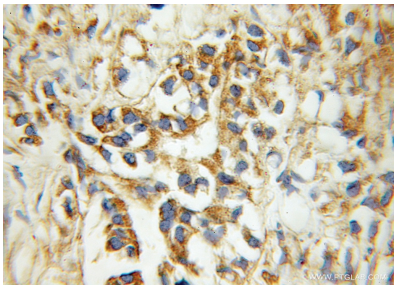
Various lysates were subjected to SDS PAGE followed by western blot with 11305-1-AP (ECHS1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



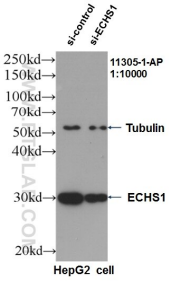
Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using ECHS1 antibody (11305-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-ECHS1 (IP:11305-1-AP, 3ug; Detection:11305-1-AP 1:500) with PC-3 cells lysate 3000ug.



Immunohistochemical analysis of paraffin-embedded human prostate cancer using 11305-1-AP (ECHS1 antibody) at dilution of 1:100 (under 10x lens).



WB result of ECHS1 antibody (11305-1-AP, 1:1200) with si-Control and si-ECHS1 transfected HepG2 cells. .