

# ECHS1 Polyclonal ANTIBODY

Catalog Number: 11305-1-AP

Featured Product

14 Publications

## Basic Information

**Catalog Number:**  
11305-1-AP

**Size:**  
20 µg/150 µl

**Source:**  
Rabbit

**Isotype:**  
IgG

**Purification Method:**  
Antigen affinity purification

**Immunogen Catalog Number:**  
AG1842

**GenBank Accession Number:**  
BC008906

**GeneID (NCBI):**  
1892

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

**Calculated MW:**  
31 kDa

**Observed MW:**  
29-31 kDa

**Recommended Dilutions:**

WB 1:500-1:2000

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

IHC 1:20-1:200

IF 1:25-1:200

## Applications

**Tested Applications:**

IF, IHC, IP, WB, ELISA

**Cited Applications:**

IF, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**Note: 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, HT-1080 cells, human liver tissue, L02 cells, mouse liver tissue, PC-3 cells, rat heart tissue

**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 |
|--------------------|-----------|----------------|-------------|
| Lanaspá Mguel A MA | 23152807  | PLoS One       | WB          |
| Bi-Yun Lin         | 25760819  | Mol Med Rep    |             |
| Gek San Tan        | 24946162  | J Proteome Res | WB          |

## Storage

**Storage:**

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

**Storage Buffer:**

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

Aliquoting is unnecessary for -20°C storage

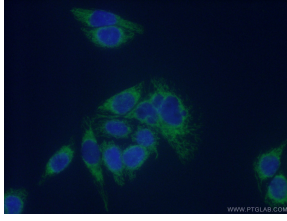
For technical support and original validation data for this product please contact:

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

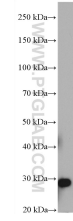
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

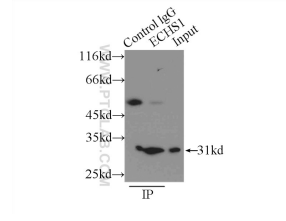
## Selected Validation Data



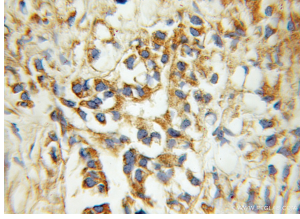
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 11305-1-AP (ECHS1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



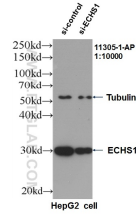
HepG2 cells were subjected to SDS PAGE followed by western blot with 11305-1-AP (ECHS1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours



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



Immunohistochemical 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.