

## ECHS1 Monoclonal antibody

Catalog Number: 66117-1-Ig

Featured Product

4 Publications

## Basic Information

## Catalog Number:

66117-1-Ig

## Size:

1207 µg/ml

## Source:

Mouse

## Isotype:

IgG2b

## Immunogen Catalog Number:

AG16775

## 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:

31 kDa

## Purification Method:

Protein A purification

## CloneNo.:

2B9D5

## Recommended Dilutions:

WB 1:2000-1:20000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:1000

IF 1:400-1:1600

## Applications

## Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

## Cited Applications:

WB, IP, IF

## Species Specificity:

human

## Cited Species:

human

**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, HepG2 cells, human testis tissue, PC-3 cells, HEK-293 cells, L02 cells, COLO 320 cells, T47D cells

**IP** : HepG2 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
Wei-Dong Xu	25281561	J Proteomics	WB
Rui Li	34615856	Cell Death Dis	WB, IF, IP
Tobias B Haack	26000322	Ann Clin Transl Neurol	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

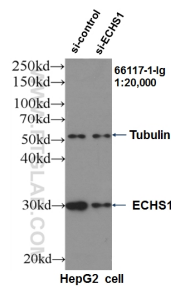
For technical support and original validation data for this product please contact:

T: 4006900926

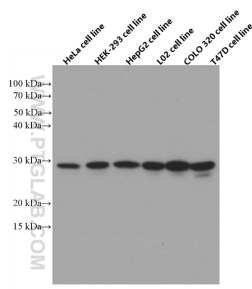
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

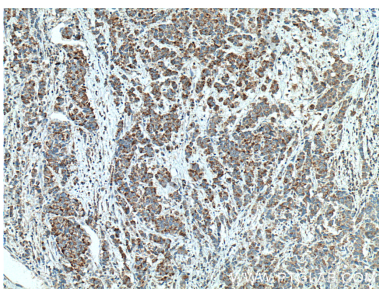
Selected Validation Data



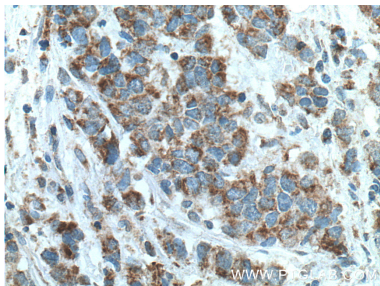
WB result of ECHS1 antibody (66117-1-Ig, 1:20,000) with si-Control and si-ECHS1 transfected HepG2 cells.



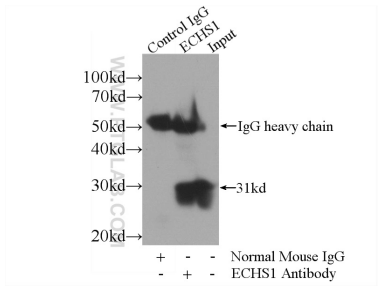
Various cells were subjected to SDS PAGE followed by western blot with 66117-1-Ig (ECHS1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



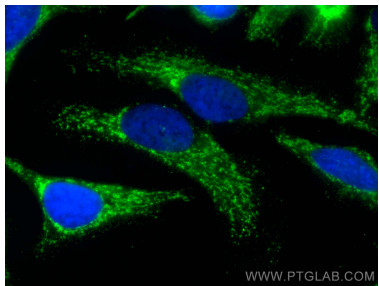
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66117-1-Ig (ECHS1 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66117-1-Ig (ECHS1 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ECHS1 (IP:66117-1-Ig, 3ug; Detection:66117-1-Ig 1:1000) with HepG2 cells lysate 3600ug.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using ECHS1 antibody (66117-1-Ig, Clone: 2B9D5 ) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).