

For Research Use Only

# SLC25A1 Polyclonal antibody

Catalog Number: 15235-1-AP

Featured Product

28 Publications



## Basic Information

### Catalog Number:

15235-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG7352

### GenBank Accession Number:

BC004980

### GeneID (NCBI):

6576

### UNIPROT ID:

P53007

### Full Name:

solute carrier family 25 (mitochondrial carrier; citrate transporter), member 1

### Calculated MW:

34 kDa

### Observed MW:

30-34 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

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

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, 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: HeLa cells, HepG2 cells, NCI-H1299 cells

IP: HeLa cells,

IHC: human breast cancer tissue, human lung cancer tissue, human kidney tissue

IF/ICC: HeLa cells, HepG2 cells

## Background Information

SLC25A1, also known as CIC or CTP, is a mitochondrial citrate transporter that exports citrate from the mitochondria to the cytosol. SLC25A1 is highly expressed in several tumor types. Recently it has been identified as a novel transcriptional target of mutant p53 and a negative tumor prognostic marker. In addition, defects in SLC25A1 has been found as a cause of combined D-2- and L-2-hydroxyglutaric aciduria. This antibody specifically recognized the endogenous SLC25A1; no protein was detected in cells from subjects containing two alleles with truncating mutations with this antibody. (24681808, 23561848)

## Notable Publications

Author	Pubmed ID	Journal	Application
Andromachi Pouikli	36278281	EMBO J	WB
Ying Yang	34839347	Cell Death Dis	WB, IHC
Weiwei Liu	35585086	Nat Commun	WB, IP

## 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

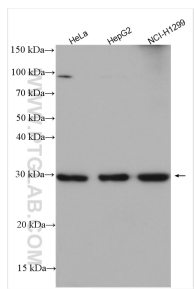
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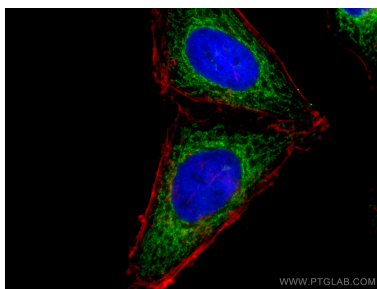
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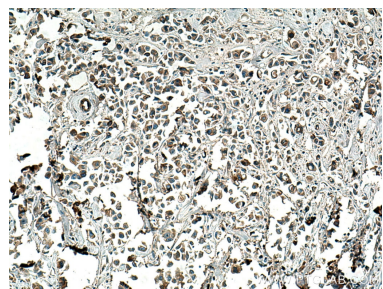
Selected Validation Data



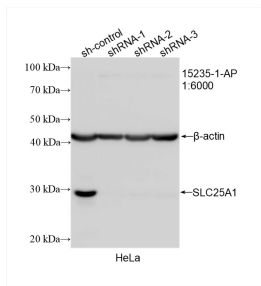
Various lysates were subjected to SDS PAGE followed by western blot with 15235-1-AP (SLC25A1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



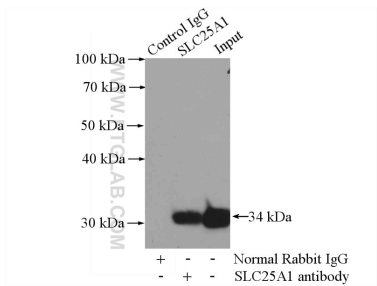
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 15235-1-AP (SLC25A1 antibody), at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 15235-1-AP (SLC25A1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of SLC25A1 antibody (15235-1-AP; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SLC25A1 transfected HeLa cells.



IP result of anti-SLC25A1 (IP:15235-1-AP, 2ug; Detection:15235-1-AP 1:500) with HeLa cells lysate 2000ug.