

For Research Use Only

# CTNS Polyclonal antibody

Catalog Number: 13085-1-AP

3 Publications



## Basic Information

### Catalog Number:

13085-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3904

### GenBank Accession Number:

BC032850

### GeneID (NCBI):

1497

### UNIPROT ID:

O60931

### Full Name:

cystinosis, nephropathic

### Calculated MW:

400aa, 45 kDa; 367aa, 42 kDa

### Observed MW:

45 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IF/ICC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB: HEK-293 cells, HeLa cells, HepG2 cells

IF/ICC: HEK-293 cells,

## Background Information

The CTNS or cystinosis is a lysosomal membrane protein which comprises with seven transmembrane domains, a 128 amino acid N-terminal region bearing seven N-glycosylation sites and a cytosolic C-terminal GYDQL sorting motif. It functions as a H<sup>+</sup>-driven cystine transporter responsible for cystine export from lysosomes. The mutation of CTNS gene cause an inherited disorder, cystinosis, characterized by defective lysosomal efflux of cystine. This antibody was raised against the N-terminal region of human cystinosis. Two isoforms of CTNS exist due to alternative splicing events and both of them can be detected through this antibody.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jong-Jer Lee	31672277	Biochem Biophys Res Commun	WB
Sho Kobayashi	33189725	J Immunol Methods	IF
Mary L Taub	21392501	Biochem Biophys Res Commun	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

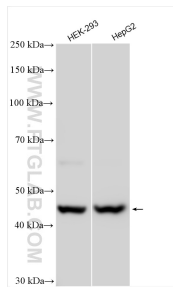
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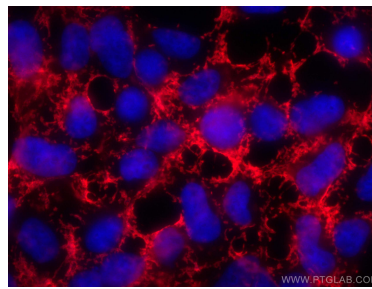
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 13085-1-AP (CTNS antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using CTNS antibody (13085-1-AP) at dilution of 1:200 and CoraLite® 594-Conjugated Goat Anti-Rabbit IgG(H+L).