

For Research Use Only

# OPA3 Polyclonal antibody

Catalog Number: 15638-1-AP

Featured Product

7 Publications



## Basic Information

### Catalog Number:

15638-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG8103

### GenBank Accession Number:

BC005059

### GeneID (NCBI):

80207

### UNIPROT ID:

Q9H6K4

### Full Name:

optic atrophy 3 (autosomal recessive, with chorea and spastic paraplegia)

### Calculated MW:

179 aa, 20 kDa

### Observed MW:

20 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, bovine

**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**: A549 cells, human kidney tissue, mouse thymus tissue, Jurkat cells, HeLa cells, HEK-293T cells

**IP**: HeLa cells,

**IHC**: human liver tissue, mouse colon tissue

**IF/ICC**: HeLa cells,

## Background Information

The OPA3 cDNA encodes a deduced 179-amino acid protein. Northern blot analysis demonstrated a primary transcript of approximately 5.0 kb that was ubiquitously expressed, most prominently in skeletal muscle and kidney. Mutations in this gene have been shown to result in 3-methylglutaconic aciduria type III and autosomal dominant optic atrophy and cataract.

## Notable Publications

Author	Pubmed ID	Journal	Application
Miao Liu	35176941	Bioengineered	WB
Ning Meng	31881642	Cancers (Basel)	IHC
Alice E Navein	27106103	Hum Mol Genet	IHC

## 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

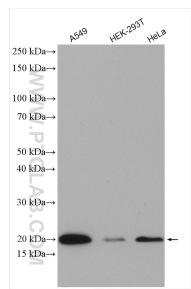
For technical support and original validation data for this product please contact:

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

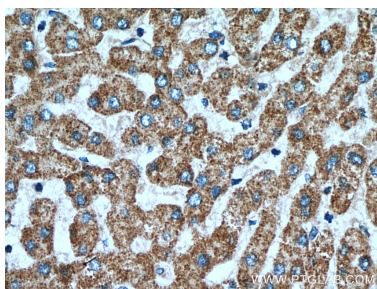
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

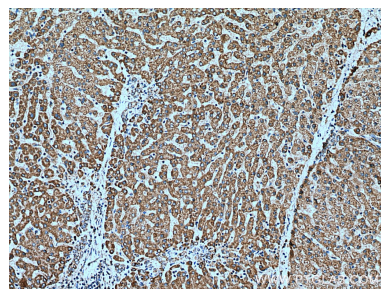
Selected Validation Data



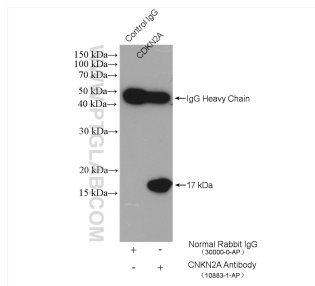
Various lysates were subjected to SDS PAGE followed by western blot with 15638-1-AP (OPA3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



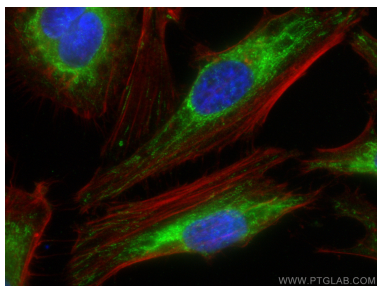
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15638-1-AP (OPA3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15638-1-AP (OPA3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-OPA3 (IP:15638-1-AP, 4ug; Detection:15638-1-AP 1:1000) with HeLa cells lysate 1240 ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using OPA3 antibody (15638-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).