

For Research Use Only

# OCTN2 Polyclonal antibody

Catalog Number: 16331-1-AP

Featured Product

9 Publications



## Basic Information

### Catalog Number:

16331-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9450

### GenBank Accession Number:

BC012325

### GeneID (NCBI):

6584

### UNIPROT ID:

O76082

### Full Name:

solute carrier family 22 (organic cation/carnitine transporter), member 5

### Calculated MW:

557 aa, 63 kDa

### Observed MW:

70-80 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**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:** mouse small intestine tissue, mouse skeletal muscle tissue, human placenta tissue, mouse pancreas tissue, mouse testis tissue

**IP:** mouse skeletal muscle tissue,

**IHC:** human kidney tissue,

## Background Information

OCTN2 (Organic Cation/Carnitine Transporter 2), encoded by SLC22A5, is a ubiquitously expressed organic anion/cation transporter. OCTN2 plays a key role in absorption, tissue distribution and renal reabsorption of L-carnitine which is an essential cofactor in fat metabolism. Defects in the OCTN2 are responsible for primary carnitine deficiency. OCTN2 also transports some important respiratory medicines (such as tiotropium), and due to its expression in the lung, may influence the disposition and absorption of these medicines in the lung.

## Notable Publications

Author	Pubmed ID	Journal	Application
S Fujita	30295925	J Neurochem	WB
Zheng Jing	35788046	Toxicol Lett	WB
Siwei Wang	30579255	Biomed Pharmacother	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

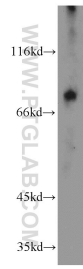
For technical support and original validation data for this product please contact:

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

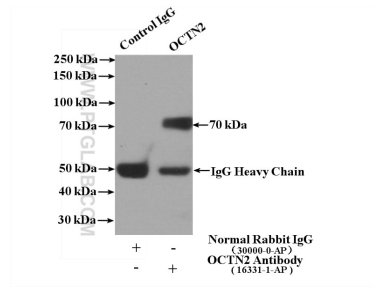
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

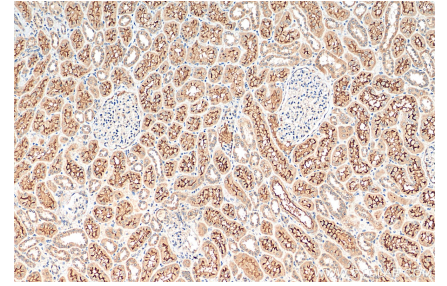
## Selected Validation Data



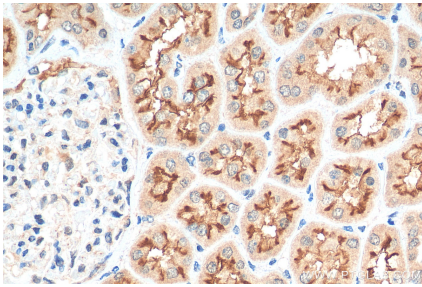
mouse small intestine tissue were subjected to SDS PAGE followed by western blot with 16331-1-AP (OCTN2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-OCTN2 (IP:16331-1-AP, 4ug; Detection:16331-1-AP 1:500) with mouse skeletal muscle tissue lysate 2200ug.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 16331-1-AP (OCTN2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 16331-1-AP (OCTN2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).