

For Research Use Only

OCTN2 Polyclonal antibody

Catalog Number: 16331-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number:

16331-1-AP

Size:

150UL, Concentration: 350 µg/ml by Nanodrop and 187 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9450

GenBank Accession Number:

BC012325

GeneID (NCBI):

6584

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 µg for IP and 1:500-1:1000 for WB

IHC 1:20-1:200

Applications

Tested Applications:

FC, IHC, IP, WB, 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 |
| Siwei Wang | 30579255 | Biomed Pharmacother | WB |
| Judith Simcox | 28877455 | Cell Metab | 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

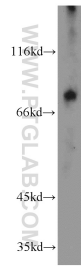
For technical support and original validation data for this product please contact:

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

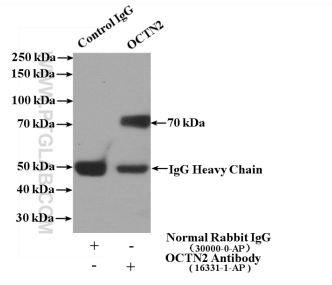
E: proteintech@ptglab.com
W: ptglab.com

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

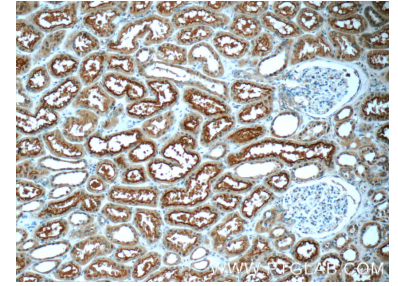
Selected Validation Data



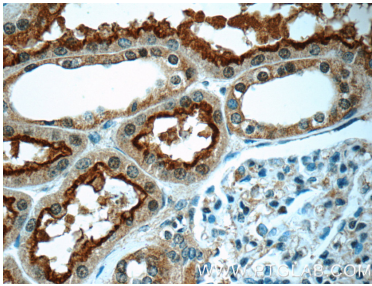
mouse small intestine tissue were subjected to SDS PAGE followed by western blot with 16331-1-AP (OCTN2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



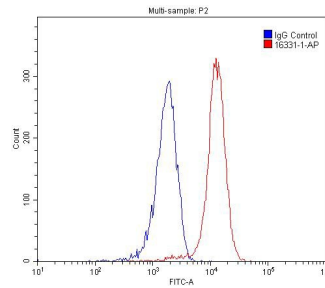
IP Result of anti-OCTN2 (IP:16331-1-AP, 4ug; Detection:16331-1-AP 1:500) with mouse skeletal muscle tissue lysate 2200ug.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 16331-1-AP (OCTN2 antibody at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 16331-1-AP (OCTN2 antibody at dilution of 1:50 (under 40x lens).



1×10^6 HEK-293 cells were stained with 0.2ug OCTN2 antibody (16331-1-AP, red) and control antibody (blue). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500. Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100.