

For Research Use Only

Uroguanylin Polyclonal antibody

Catalog Number: 18113-1-AP

3 Publications



Basic Information

Catalog Number:

18113-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 367 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12589

GenBank Accession Number:

BC093779

GeneID (NCBI):

2981

UNIPROT ID:

Q16661

Full Name:

guanylate cyclase activator 2B (uroguanylin)

Calculated MW:

112 aa, 12 kDa

Observed MW:

12-13 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:400-1:1600

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

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 pancreas tissue, mouse colon tissue, mouse small intestine tissue, rat pancreas tissue

IHC: human pancreas cancer tissue, human kidney tissue, human stomach tissue, human colon cancer tissue, mouse small intestine tissue, mouse kidney tissue

IF/ICC: HepG2 cells,

Background Information

Uroguanylin, also named as GUCA2B, is a candidate intestinal natriuretic hormone that controls the sodium and water balance between the intestine and the kidneys. It has been reported that the uroguanylin knockout mouse exhibits elevated blood pressure. Therefore, the GUCA2B gene is thought to be a susceptibility gene for essential hypertension (EH).

Notable Publications

Author	Pubmed ID	Journal	Application
Nobuhiko Ebisutani	33381053	Front Physiol	IHC
Natchayaporn Thonapan	39820616	PLoS One	IF
Jason C Huang	38767504	Hum Gene Ther	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

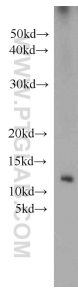
For technical support and original validation data for this product please contact:

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

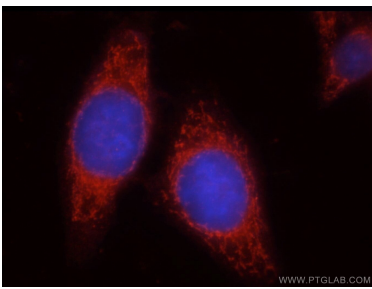
E: proteintech@ptglab.com
W: ptglab.com

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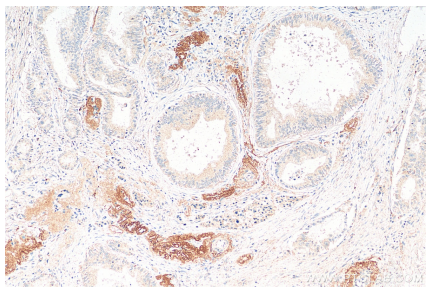
Selected Validation Data



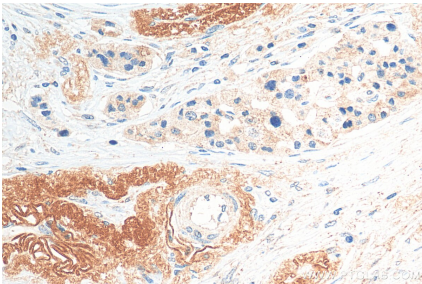
mouse pancreas tissue were subjected to SDS PAGE followed by western blot with 18113-1-AP (Uroguanylin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



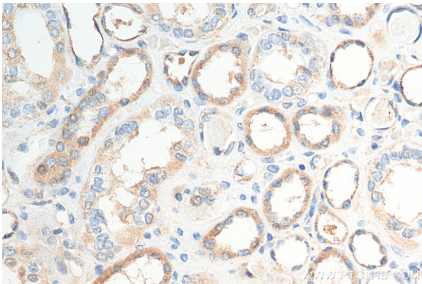
Immunofluorescent analysis of HepG2 cells using 18113-1-AP (Uroguanylin antibody) at dilution of 1:50 and Rhodamine-labeled goat anti-rabbit IgG (red).



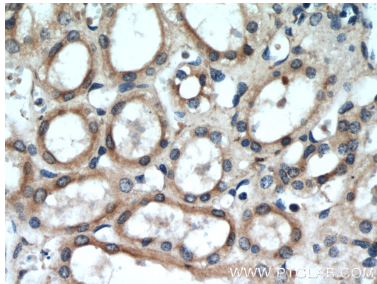
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 18113-1-AP (Uroguanylin antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



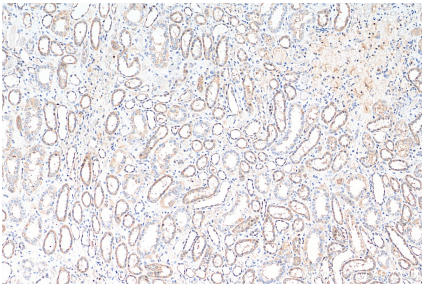
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 18113-1-AP (Uroguanylin antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



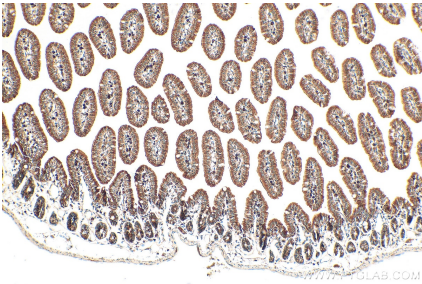
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 18113-1-AP (Uroguanylin antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



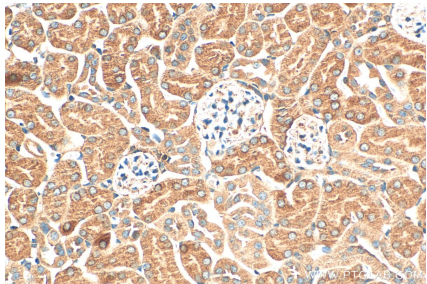
Immunohistochemical analysis of paraffin-embedded human kidney using 18113-1-AP (Uroguanylin antibody) at dilution of 1:50 (under 40x lens).



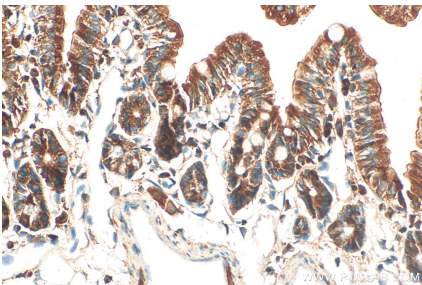
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 18113-1-AP (Uroguanylin antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 18113-1-AP (Uroguanylin antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 18113-1-AP (Uroguanylin antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 18113-1-AP (Uroguanylin antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).