

For Research Use Only

SLC5A8 Polyclonal antibody

Catalog Number: 21433-1-AP

14 Publications



Basic Information

Catalog Number:

21433-1-AP

Size:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16041

GenBank Accession Number:

BC110492

GeneID (NCBI):

160728

UNIPROT ID:

Q8N695

Full Name:

solute carrier family 5 (iodide transporter), member 8

Calculated MW:

610 aa, 67 kDa

Observed MW:

67 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

IF-P 1:50-1:500

IF/ICC 1:10-1:100

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:

WB, IHC, IF

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 : HEK-293 cells, human brain tissue, mouse brain tissue, mouse kidney tissue, rat kidney tissue

IHC : rat kidney tissue, mouse kidney tissue

IF-P : mouse kidney tissue,

IF/ICC : Hela cells,

Background Information

The sodium-coupled monocarboxylate transporter 1 (SMCT1; SLC5A8), belonging to the SLC5A family, is a 67-kDa protein that functions as a Na⁺-coupled electrogenic transporter for SCFAs. SLC5A mRNA and protein are expressed in healthy human, rat, and mouse colon. The protein is localized to the apical membrane of the colonocytes. Immunohistochemical studies revealed the selective localization of SMCT1 on the brush border in the villi of the terminal ileum and crypts of the colon in mice.

Notable Publications

Author	Pubmed ID	Journal	Application
Laura Schaefer	35296712	Sci Rep	IHC
Jing Xiao	29497172	Exp Mol Med	WB
Chenxu Zhao	32850999	Front Vet Sci	WB,IHC,IF

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:

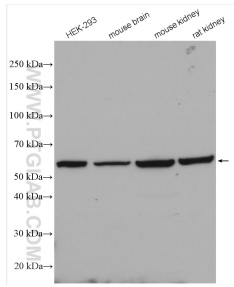
T: 4006900926

E: Proteintech-CN@ptglab.com

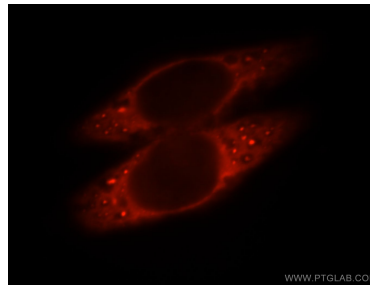
W: ptgcn.com

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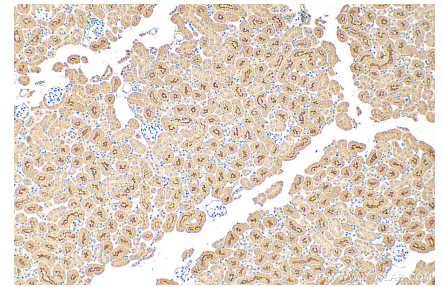
Selected Validation Data



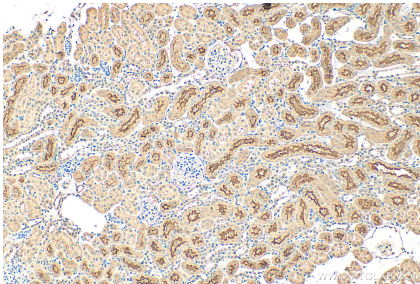
Various lysates were subjected to SDS PAGE followed by western blot with 21433-1-AP (SLC5A8 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



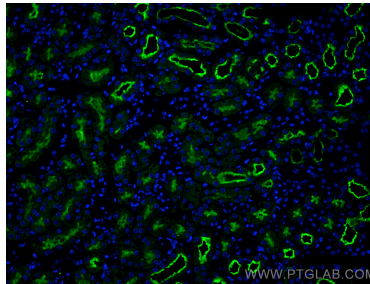
Immunofluorescent analysis of HeLa cells, using SLC5A8 antibody 21433-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 21433-1-AP (SLC5A8 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 rat kidney tissue slide using 21433-1-AP (SLC5A8 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using SLC5A8 antibody (21433-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).