

For Research Use Only

# SLC20A1 Polyclonal antibody

Catalog Number: 12423-1-AP

Featured Product

18 Publications



## Basic Information

### Catalog Number:

12423-1-AP

### Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3084

### GenBank Accession Number:

BC019944

### GeneID (NCBI):

6574

### UNIPROT ID:

Q8WUM9

### Full Name:

solute carrier family 20 (phosphate transporter), member 1

### Calculated MW:

679 aa, 74 kDa

### Observed MW:

85 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, IHC, IF, IP, CoIP

### Species Specificity:

human

### Cited Species:

human, mouse, rat, zebrafish

**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, HeLa cells, human kidney tissue, Jurkat cells, K-562 cells

**IP** : HEK-293 cells,

**IHC** : human liver tissue, human breast cancer tissue, human lymphoma tissue

## Background Information

SLC20A1 (also known as PiT1) is a high-affinity sodium-dependent phosphate (Pi) import protein. It is widely expressed and plays a fundamental housekeeping role in phosphate transport, such as absorbing phosphate from interstitial fluid for normal cellular functions. SLC20A1 is involved in cell proliferation, tumor growth and cell signaling independently of its transport function. SLC20A1 also functions as a retroviral receptor, causing human cells to be susceptible to infection by gibbon ape leukemia virus, simian sarcoma-associated virus, feline leukemia virus subgroup B, and 10A1 murine leukemia virus.

## Notable Publications

Author	Pubmed ID	Journal	Application
Nhung Thi Nguyen	33095057	Am J Physiol Heart Circ Physiol	WB
Ping Wang	33439323	Calcif Tissue Int	WB
Nina Bon	29233890	J Biol Chem	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

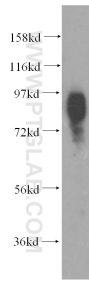
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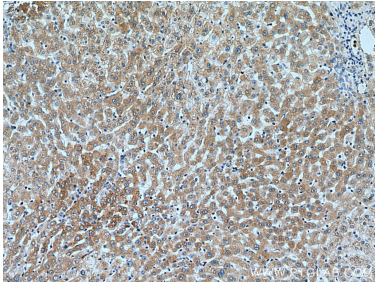
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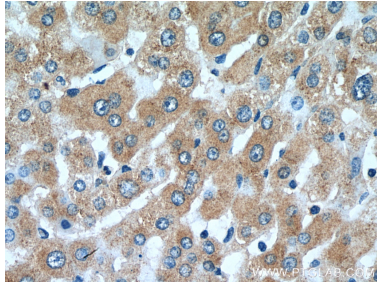
Selected Validation Data



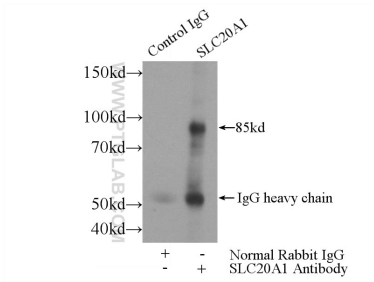
HEK-293 cells were subjected to SDS PAGE followed by western blot with 12423-1-AP (SLC20A1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 12423-1-AP (SLC20A1 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 liver tissue slide using 12423-1-AP (SLC20A1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-SLC20A1 (IP:12423-1-AP, 4ug; Detection:12423-1-AP 1:500) with HEK-293 cells lysate 2800ug.