

For Research Use Only

SLC38A1 Polyclonal antibody

Catalog Number: 28632-1-AP

Featured Product

2 Publications



Basic Information

Catalog Number:

28632-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG30088

GenBank Accession Number:

BC010620

GeneID (NCBI):

81539

UNIPROT ID:

Q9H2H9

Full Name:

solute carrier family 38, member 1

Calculated MW:

487 aa, 54 kDa

Observed MW:

54 kDa, 60-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:14000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

Human, mouse

Cited Species:

human, mouse

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: A549 cells, mouse brain tissue, mouse skeletal muscle tissue

IHC: mouse brain tissue,

Background Information

SLC38A1 (Sodium-coupled neutral amino acid transporter 1), is also named as SNAT1, which is a symporter that cotransports short-chain neutral amino acids and sodium ions from the extracellular to the intracellular side of the cell membrane (PMID:20599747, PMID:10891391). Inhibition of SLC38A1 reduced tumor growth, cellular migration, invasion, and induced senescence in melanoma cells (PMID:35565278). SLC38A1 was identified as a positive regulator of mTORC1 in neurons, which promoted ischemic brain damage by mTOR-autophagy system (PMID:31552299). SLC38A1 is mainly expressed in brain and placenta.

Notable Publications

Author	Pubmed ID	Journal	Application
Jiaojiao Xu	40075587	Cancers (Basel)	WB
Shuang Li	38382691	Cell Signal	WB, IHC

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

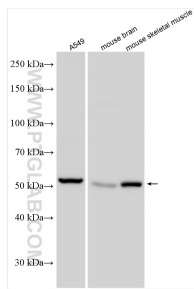
For technical support and original validation data for this product please contact:

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

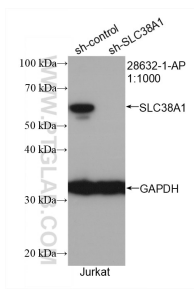
E: proteintech@ptglab.com
W: ptglab.com

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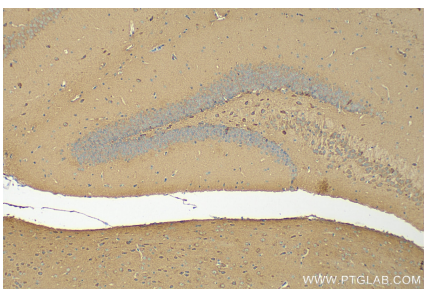
Selected Validation Data



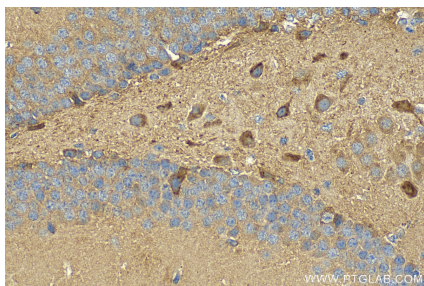
Various lysates were subjected to SDS PAGE followed by western blot with 28632-1-AP (SLC38A1 antibody) at dilution of 1:7000 incubated at room temperature for 1.5 hours.



WB result of SLC38A1 antibody (28632-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SLC38A1 transfected Jurkat cells.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 28632-1-AP (SLC38A1 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 mouse brain tissue slide using 28632-1-AP (SLC38A1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).