

For Research Use Only

# SLC6A8 Polyclonal antibody

Catalog Number: 20299-1-AP

Featured Product

18 Publications



## Basic Information

Catalog Number:

20299-1-AP

Concentration:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14110

GenBank Accession Number:

BC012355

GeneID (NCBI):

6535

UNIPROT ID:

P48029

Full Name:

solute carrier family 6  
(neurotransmitter transporter,  
creatine), member 8

Calculated MW:

635 aa, 71 kDa

Observed MW:

65-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:300-1:1000

IHC 1:50-1:500

IF-P 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF-P, 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 heart tissue, HUVEC cells, mouse kidney  
tissue, rat heart tissue, rat kidney tissue

IHC : mouse brain tissue,

IF-P : mouse brain tissue,

## Background Information

SLC6A8, also known as the sodium- and chloride-dependent creatine transporter 1 (CT1), plays a critical role in transporting creatine, a crucial molecule for energy metabolism, into cells. SLC6A8 belongs to the solute carrier family 6 (SLC6), responsible for transporting diverse molecules across cell membranes. SLC6A8 expression is highest in muscle, kidney, and other tissues with high energy demands. Mutations in SLC6A8 cause creatine transporter deficiency, an X-linked mental retardation disorder (PMID: 17465020).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yongfei Fan	35692837	Front Genet	IHC
Sho Nishikawa	31914311	J Agric Food Chem	WB
Yongfei Fan	35251966	Front Oncol	IHC

## 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:

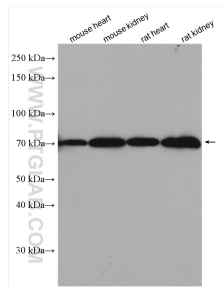
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

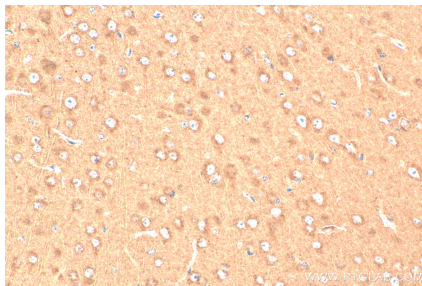
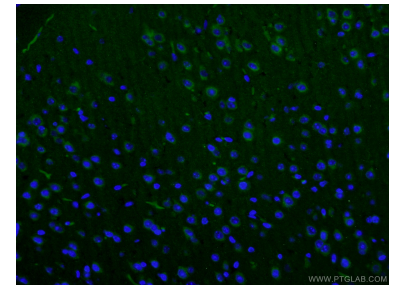
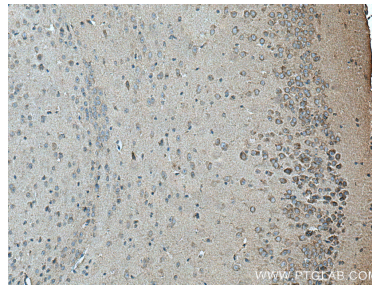
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20299-1-AP (SLC6A8 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20299-1-AP (SLC6A8 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).