For Research Use Only

SLC25A22 Polyclonal antibody

Catalog Number:25402-1-AP 5 Publications

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Basic Information

Catalog Number:
25402-1-AP

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop and 460 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG19958

GenBank Accession Number:
BC023545

GeneID (NCBI):
79751

UNIPROT ID:
Q9H936

Full Name:
solute carrier family 25 (mitochondrial carrier: glutamate), member 22

Calculated MW:
323 aa, 34 kDa

Observed MW:
30-34 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:6000
IHC: 1:50-1:500
IF-P: 1:50-1:500
IF/ICC: 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat, monkey

Cited Species:
human, mouse, canine

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 brain tissue, Caco-2 cells, HT-29 cells, rat brain tissue, NCI-H1299 cells

IHC : mouse brain tissue, human colon cancer tissue, human liver cancer tissue

IF-P : mouse brain tissue,

IF/ICC : COS-7 cells,

Background Information

SLC25A22 encodes a mitochondrial glutamate/H+ symporter with highly expression in brain, especially in astrocytes, where it controls glutamate uptake. The mutations of SLC25A22 are associated with the early/infantile epileptic encephalopathies. It has been shown that SLC25A22 plays a key role in promoting proliferation and migration in cancer, such as human colorectal cancer (CRC) and Gallbladder cancer (GBC). And there is a result that the expression of SLC25A22 in GBC was significantly higher than that in adjacent tissues. 25402-1-AP antibody is specific to SLC25A22.(PMID: 30814911, 25033742, 24596948)

Notable Publications

Author	Pubmed ID	Journal	Application
Maria F Noterman	33836587	Proc Natl Acad Sci U S A	WB
Hiroshi Shimada	41265498	Free Radic Biol Med	WB
Junsheng Chen	41175374	Cell Rep	WB

Storage

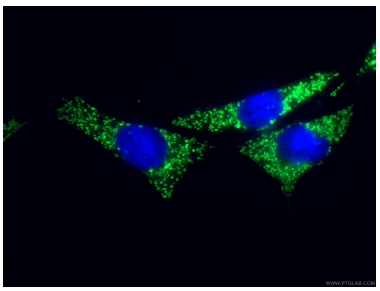
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

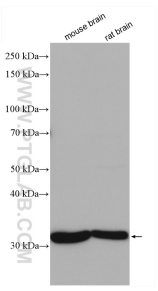
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

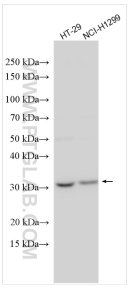


Immunofluorescent analysis of (4% PFA) fixed COS-7 cells using 25402-1-AP (SLC25A22 antibody), at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).

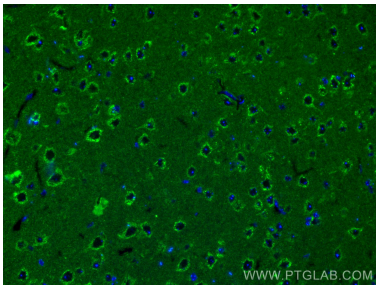


Various lysates were subjected to SDS PAGE followed by western blot with 25402-1-AP (SLC25A22 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 25402-1-AP (SLC25A22 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 25402-1-AP (SLC25A22 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using SLC25A22 antibody (25402-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).