

For Research Use Only

SLC32A1/VGAT Polyclonal antibody

Catalog Number: 14471-1-AP

15 Publications



Basic Information

Catalog Number:

14471-1-AP

Size:

150ul, Concentration: 800 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5843

GenBank Accession Number:

BC053582

GeneID (NCBI):

140679

UNIPROT ID:

Q9H598

Full Name:

solute carrier family 32 (GABA vesicular transporter), member 1

Calculated MW:

57 kDa

Observed MW:

57 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, caenorhabditis elegans

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: unboiled mouse brain tissue,

IP: mouse brain tissue,

IHC: rat brain tissue, mouse brain tissue

IF-P: rat brain tissue, mouse brain tissue

Background Information

SLC32A1, also known as VGAT (vesicular GABA transporter), functions in the uptake of GABA and glycine into synaptic vesicles. GABA (gamma-aminobutyric acid), is the major inhibitory neurotransmitter in the CNS. VGAT transports GABA and glycine into acidic vesicles and localizes to the synaptic vesicle in glycinergic and GABAergic neurons. And VGAT antibodies are useful markers for presynaptic GABAergic and glycinergic neurons.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-------------------|-----------|-------------------------|-------------|
| Eva S Schweikhard | 26348906 | Biochem J | WB |
| Wenting Zhuang | 35735607 | Curr Issues Mol Biol | IF |
| Tomohiro Umeda | 28760161 | Acta Neuropathol Commun | 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

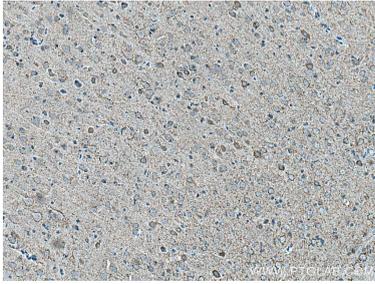
For technical support and original validation data for this product please contact:

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

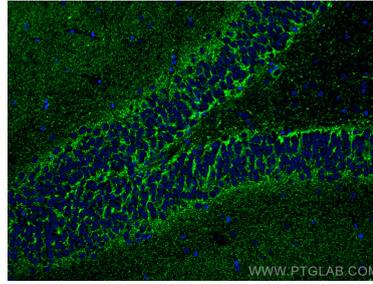
E: proteintech@ptglab.com
W: ptglab.com

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

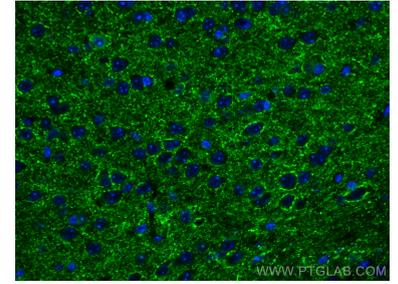
Selected Validation Data



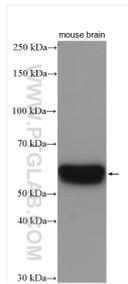
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 14471-1-AP (VGAT antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



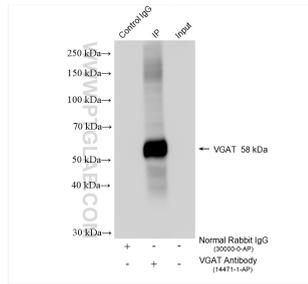
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using VGAT antibody (14471-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



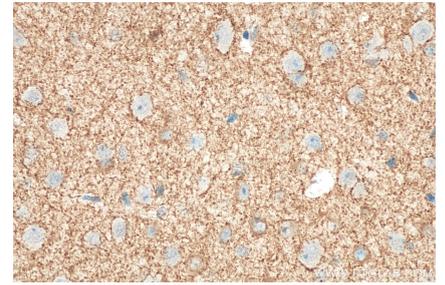
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using VGAT antibody (14471-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



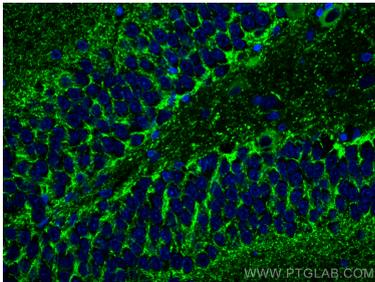
unboiled mouse brain tissue were subjected to SDS PAGE followed by western blot with 14471-1-AP (VGAT antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



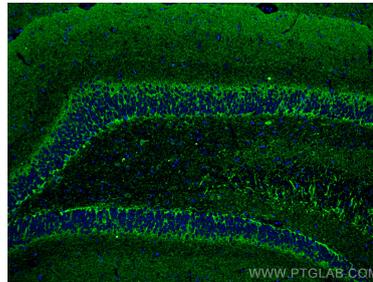
IP result of anti-VGAT (IP:14471-1-AP, 4ug; Detection:14471-1-AP 1:5000) with mouse brain tissue lysate 2100 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 14471-1-AP (VGAT antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using VGAT antibody (14471-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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