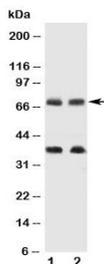


GAT-1 Antibody / GABA Transporter 1 / SLC6A1 (C-Terminal Region) (R30811)

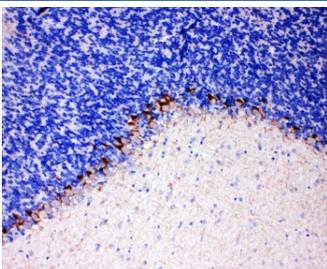
Catalog No.	Formulation	Size
R30811	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P30531
Localization	Membrane
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml
Limitations	This GAT-1 antibody is available for research use only.



Western blot testing of GAT-1 antibody and Lane 1: rat brain; 2: mouse brain tissue lysate. Predicted molecular weight: 67~80 kDa depending on level of glycosylation. The ~35 kDa band is uncharacterized.



IHC-P: GAT-1 antibody testing of rat brain tissue

Description

SLC6A1 (Solute Carrier family 6 (Neurotransmitter transporter, Gaba), Member 1), also called GABATR, GABATHG and GAT-1, encodes a gamma-aminobutyric acid (GABA) transporter, which removes GABA from the synaptic cleft. Zomot et al.(2007) showed that introduction of a negatively charged amino acid at or near one of the two putative sodium binding sites of GAT-1 from rat brain renders both net flux and exchange of GABA largely chloride independent. By in vitro functional expression studies, the GAT-1 insertion promoter (two copies of the sequence) had significantly greater promoter activity than the noninsertion (one copy of the sequence) promoter, which in turn had greater activity than a promoterless control. Studies of postmortem hippocampus from 69 African American individuals showed that overall expression decreased with age.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the GAT-1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human GABA Transporter 1 (WFYGVNRFYDNIQEM) was used as the immunogen for this GAT-1 antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the GAT-1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.