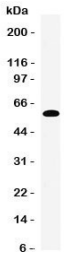
EAAT3 Antibody / SLC1A1 (R31284)

Catalog No.	Formulation	Size
R31284	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
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	P43005
Applications	Western blot: 0.5-1ug/ml
Limitations	This EAAT3 antibody is available for research use only.



Western blot testing of EAAT3 antibody and human placenta tissue lysate. Expected molecular weight: 57-70 kDa.

Description

Excitatory amino acid transporter 3 is a protein that in humans is encoded by the SLC1A1 gene. By Southern analysis of a panel of human/rodent somatic cell hybrids and by fluorescence in situ hybridization(FISH), this gene is mapped to 9p24.2. This gene encodes a member of the high-affinity glutamate transporters that play an essential role in transporting glutamate across plasma membranes. In brain, these transporters are crucial in terminating the postsynaptic action of the neurotransmitter glutamate, and in maintaining extracellular glutamate concentrations below neurotoxic levels. EAAT3 also transports aspartate, and mutations in this gene are though to cause dicarboxylicamino aciduria, also known as glutamate-aspartate transport defect.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the EAAT3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of human Excitatory amino acid transporter 3 (EWKRFLKNNWVLLSTVAA) was used as the immunogen for this EAAT3 antibody.

Storage

After reconstitution, the EAAT3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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