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SLC1A1 Rabbit pAb

Catalog No.: A2903

1 Publications

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Basic Information

Observed MW
70kDa

Calculated MW
57kDa

Category
Polyclonal Antibodies

Applications
WB, IF-P, ELISA

Cross Reactivity
Human, Mouse, Rat

Background

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. This transporter also transports aspartate, and mutations in this gene are thought to cause dicarboxylicamino aciduria, also known as glutamate-aspartate transport defect.

Recommended Dilutions

WB	1:500 - 1:1000
IF-P	1:100 - 1:400

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
6505

Swiss-Prot
P43005

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
DCBXA; EAAC1; EAAT3; SCZD18; hEAAC1; SLC1A1

Contact

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Product Information

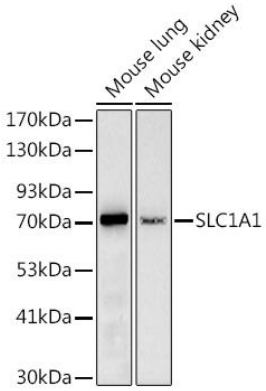
Source
Rabbit

Isotype
IgG

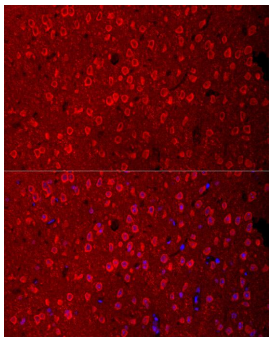
Purity
Affinity purification

Storage
Store at -20℃
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of various lysates using SLC1A1 Rabbit pAb (A2903) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 180 s.



Perform microwave antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IF staining protocol.Immunofluorescence analysis of paraffin-embedded mouse brain using SLC1A1 Rabbit pAb (A2903) at dilution of 1:400 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1: 500 dilution. Blue: DAPI for nuclear staining.

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Please visit http://abclonal.com for a complete listing of recommended products.