

Product datasheet for **TA334294**

EAAT2 (SLC1A2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB, IHC
Reactivity:	Human, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-SLC1A2 antibody: synthetic peptide directed towards the N terminal of human SLC1A2. Synthetic peptide located within the following region: PGNPKLKKQLGPGKKNDEVSSLD AFLDLIRNLPENLVQACFQQIQTGTK
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	62 kDa
Gene Name:	solute carrier family 1 member 2
Database Link:	NP_004162 Entrez Gene 29482 Rat Entrez Gene 6506 Human P43004



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Background:

SLC1A2 is a member of a family of solute transporter proteins. The membrane-bound protein is the principal transporter that clears the excitatory neurotransmitter glutamate from the extracellular space at synapses in the central nervous system. Glutamate clearance is necessary for proper synaptic activation and to prevent neuronal damage from excessive activation of glutamate receptors. Mutations in and decreased expression of this protein are associated with amyotrophic lateral sclerosis. Alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. This gene encodes a member of a family of solute transporter proteins. The membrane-bound protein is the principal transporter that clears the excitatory neurotransmitter glutamate from the extracellular space at synapses in the central nervous system. Glutamate clearance is necessary for proper synaptic activation and to prevent neuronal damage from excessive activation of glutamate receptors. Mutations in and decreased expression of this protein are associated with amyotrophic lateral sclerosis. Alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Synonyms:

EAAT2; GLT-1; HBGT

Note:

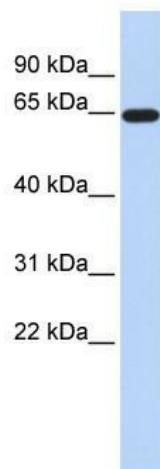
Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Sheep: 100%; Bovine: 100%; Rabbit: 100%; Guinea pig: 100%; Zebrafish: 92%

Protein Families:

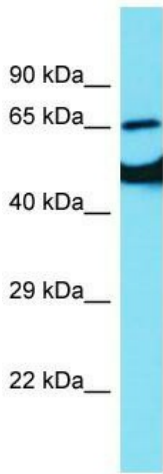
Transmembrane

Protein Pathways:

Amyotrophic lateral sclerosis (ALS)

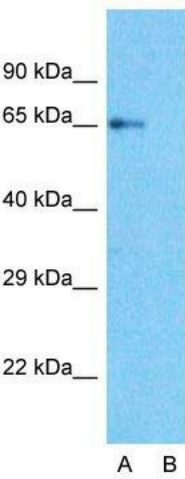
Product images:

WB Suggested Anti-SLC1A2 Antibody Titration:
0.2-1 ug/ml; ELISA Titer: 1:312500; Positive
Control: Human brain



Host: Rabbit
 Target Name: SLC1A2
 Sample Tissue: Fetal Brain Lysate
 Antibody Dilution: 1.0µg/ml

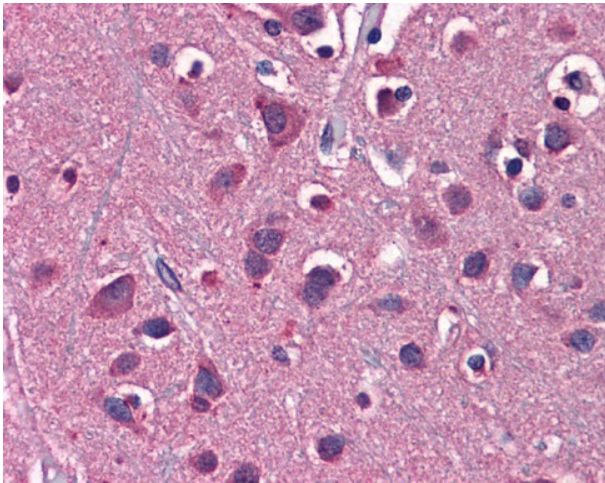
Host: Rabbit; Target Name: SLC1A2; Sample Tissue: Fetal Brain lysates; Antibody Dilution: 1.0 ug/ml



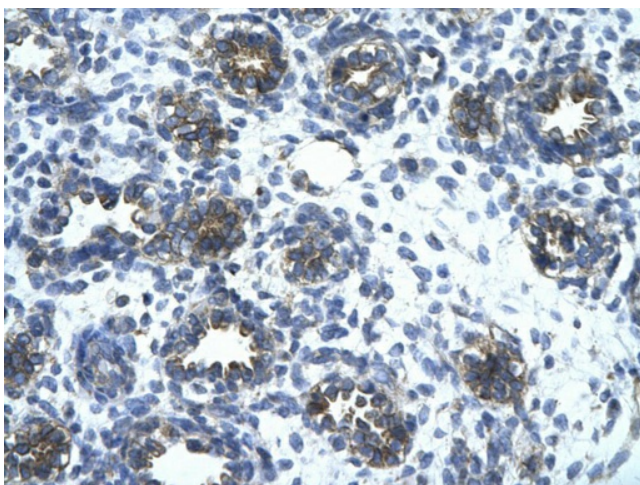
Anti-SLC1A2 Western Blot & Peptide Block Validation

Lysate: Fetal Brain
 Lane A: Primary Antibody
 Lane B: Primary Antibody + Blocking Peptide
 Primary Antibody Concentration: 1.0µg/ml
 Peptide Concentration: 5.0µg/ml
 Lysate Quantity: 25µg/lane
 Gel Concentration: 12%

Host: Rabbit; Target Name: SLC1A2; Sample Tissue: Fetal Brain; Lane A: Primary Antibody; Lane B: Primary Antibody + Blocking Peptide ; Primary Antibody Concentration: 1 ug/ml; Peptide Concentration: 5 ug/ml; Lysate Quantity: 25ug/lane/Lane; Gel Concentration:



Brain, cortex



Rabbit Anti-SLC1A2 Antibody; Paraffin Embedded
Tissue: Human alveolar cell; Cellular Data:
Epithelial cells of renal tubule; Antibody
Concentration: 4.0-8.0 ug/ml; Magnification: 400X