



## Rabbit Anti-EAAT2 antibody

SL1751R

<b>Product Name:</b>	EAAT2
<b>Chinese Name:</b>	胶质细胞谷氨酸运载蛋白2抗体
<b>Alias:</b>	EAAT2; Excitatory amino acid transporter 2; Excitotoxic amino acid transporter 2; Glial high affinity glutamate transporter; GLT 1; GLT1; Glutamate aspartate transporter II; SLC1A2; Sodium dependent glutamate aspartate transporter 2; Solute carrier family 1 glial high affinity glutamate transporter member 2; Solute carrier family 1 member 2; Excitatory amino acid transporter 2; GLT-1; SLC1A2; Sodium-dependent glutamate/aspartate transporter 2; Solute carrier family 1 member 2.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Cow,Horse,Rabbit,
<b>Applications:</b>	WB=1:500-2000Flow-Cyt=1 $\mu$ g /test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	62kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human EAAT2:101-200/574<Extracellular>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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 identified. [provided by RefSeq, Sep 2010]

**Function:**

Transports L-glutamate and also L- and D-aspartate. Essential for terminating the postsynaptic action of glutamate by rapidly removing released glutamate from the synaptic cleft. Acts as a symport by cotransporting sodium.

**Subunit:**

Homotrimer. Interacts with AJUBA.

**Subcellular Location:**

Membrane; Multi-pass membrane protein.

**Tissue Specificity:**

Brain

**Post-translational modifications:**

Glycosylated.

Palmitoylation at Cys-38 is not required for correct subcellular localization, but is important for glutamate uptake activity.

**Similarity:**

Belongs to the sodium:dicarboxylate (SDF) symporter (TC 2.A.23) family. SLC1A2 subfamily.

**SWISS:**

P43004

**Gene ID:**

6506

**Database links:**

[Entrez Gene: 6506](#)Human

[Entrez Gene: 20511](#)Mouse

[Entrez Gene: 29482](#)Rat

[Omim: 600300](#)Human

[SwissProt: P43004](#)Human

[SwissProt: P43006](#)Mouse

[SwissProt: P31596](#)Rat

[Unigene: 502338](#)Human

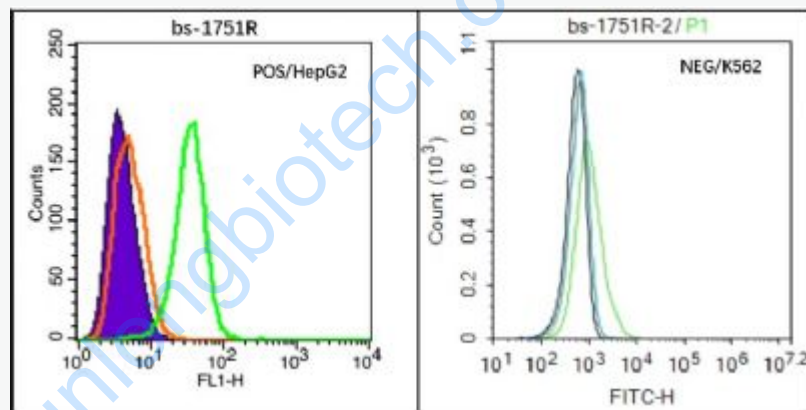
[Unigene: 267547](#)Mouse

[Unigene: 371582](#)Mouse

[Unigene: 10240](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Black line : Positive blank control (HepG2); Negative blank control ( K562)

Green line : Primary Antibody (Rabbit Anti-EAAT2 antibody (SL1751R) )

Orange line : Isotype Control Antibody (Rabbit IgG) .

Blue line : Secondary Antibody (Goat anti-rabbit IgG-FITC)

HepG2 (Positive) and K562 (Negative control) cells (black) were incubated in 5%

BSA blocking buffer for 30 min at room temperature. Cells were then stained with

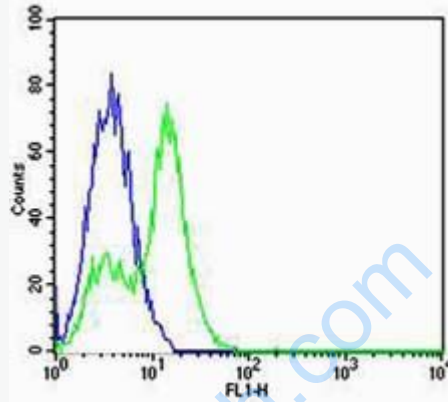
EAAT2 Antibody(SL1751R)at 1:50 dilution in blocking buffer and incubated for 30

min at room temperature, washed twice with 2% BSA in PBS, followed by

secondary antibody(blue) incubation for 40 min at room temperature. Acquisitions

**Picture:**

of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).



Cell: H-4-II-E

Concentration: 1:100

Host/Isotype: Rabbit/IgG

Flow cytometric analysis of Rabbit IgG isotype control (Cat#: bs-1751R) on H-4-II-E (green) compared with control in the absence of primary antibody (blue) followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG(H+L) secondary antibody .