

## Recombinant Human SLC1A2 cell lysate

Cat. No. SLC1A2-1618HCL Lot. No. (See product label)

### SPECIFICATION

**Species**

Human

**Description**

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.

**Size**

100 ul

**Storage Buffer**

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

**Applications**

Western Blot;

### GENE INFORMATION

**Gene Name**

SLC1A2 solute carrier family 1 (glial high affinity glutamate transporter), member 2 [ *Homo sapiens* ]

**Official Symbol**

SLC1A2

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Synonyms</b>	SLC1A2; solute carrier family 1 (glial high affinity glutamate transporter), member 2; excitatory amino acid transporter 2; EAAT2; GLT 1; glutamate/aspartate transporter II; excitotoxic amino acid transporter 2; sodium-dependent glutamate/aspartate transporter 2; GLT-1;
<b>Gene ID</b>	6506
<b>mRNA Refseq</b>	NM_001195728
<b>Protein Refseq</b>	NP_001182657
<b>MIM</b>	600300
<b>UniProt ID</b>	P43004
<b>Chromosome Location</b>	11p13-p12
<b>Pathway</b>	Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; Astrocytic Glutamate-Glutamine Uptake And Metabolism, organism-specific biosystem; Glutamatergic synapse, organism-specific biosystem; Glutamatergic synapse, conserved biosystem; Neuronal System, organism-specific biosystem; Neurotransmitter uptake and Metabolism In Glial Cells, organism-specific biosystem;
<b>Function</b>	L-glutamate transmembrane transporter activity; glutamate:sodium symporter activity; high-affinity glutamate transmembrane transporter activity; sodium:dicarboxylate symporter activity; symporter activity;

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