

Recombinant Human SLC1A2 cell lysate

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

SPECIFICATION

Product Overview

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 [<i>Homo sapiens</i>]
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Official Symbol	SLC1A2
Synonyms	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;
Gene ID	6506
mRNA Refseq	NM_001195728
Protein Refseq	NP_001182657
MIM	600300
UniProt ID	P43004
Chromosome Location	11p13-p12
Pathway	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;
Function	L-glutamate transmembrane transporter activity; glutamate:sodium symporter activity; high-affinity glutamate transmembrane transporter activity; sodium:dicarboxylate symporter activity; symporter activity;