

Recombinant Human SLC6A4 cell lysate

Cat. No. SLC6A4-1638HCL Lot. No. (See product label)

SPECIFICATION

Species

Human

Description

This gene encodes an integral membrane protein that transports the neurotransmitter serotonin from synaptic spaces into presynaptic neurons. The encoded protein terminates the action of serotonin and recycles it in a sodium-dependent manner. This protein is a target of psychomotor stimulants, such as amphetamines and cocaine, and is a member of the sodium:neurotransmitter symporter family. A repeat length polymorphism in the promoter of this gene has been shown to affect the rate of serotonin uptake and may play a role in sudden infant death syndrome, aggressive behavior in Alzheimer disease patients, and depression-susceptibility in people experiencing emotional trauma.

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

SLC6A4 solute carrier family 6 (neurotransmitter transporter, serotonin), member 4 [Homo sapiens]

Official Symbol

SLC6A4

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Synonyms	SLC6A4; solute carrier family 6 (neurotransmitter transporter, serotonin), member 4; HTT; sodium-dependent serotonin transporter; 5 HTT; SERT1; 5HT transporter; 5-hydroxytryptamine transporter; solute carrier family 6 member 4; Na ⁺ /Cl ⁻ dependent serotonin transporter; 5HTT; OCD1; SERT; 5-HTT; hSERT; 5-HTTLPR;
Gene ID	6532
mRNA Refseq	NM_001045
Protein Refseq	NP_001036
MIM	182138
UniProt ID	P31645
Chromosome Location	17q11.2
Pathway	Monoamine Transport, organism-specific biosystem; SIDS Susceptibility Pathways, organism-specific biosystem; Serotonergic synapse, organism-specific biosystem;
Function	Rab GTPase binding; actin filament binding; cocaine binding; monoamine transmembrane transporter activity; myosin binding; nitric-oxide synthase binding; protein binding; protein homodimerization activity; serotonin transmembrane transporter activity; serotonin transmembrane transporter activity; serotonin:sodium symporter activity; serotonin:sodium symporter activity; symporter activity; syntaxin-1 binding;

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