

Recombinant Human STX1A cell lysate

Cat. No. STX1A-1717HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Description	Synaptic vesicles store neurotransmitters that are released during calcium-regulated exocytosis. The specificity of neurotransmitter release requires the localization of both synaptic vesicles and calcium channels to the presynaptic active zone. Syntaxins function in this vesicle fusion process. Syntaxins also serve as a substrate for botulinum neurotoxin type C, a metalloprotease that blocks exocytosis and has high affinity for a molecular complex that includes the alpha-latrotoxin receptor (MIM 600565) which produces explosive exocytosis (Zhang et al., 1995 [PubMed 7622072]).
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	STX1A syntaxin 1A (brain) [Homo sapiens]
Official Symbol	STX1A
Synonyms	STX1A; syntaxin 1A (brain); STX1; syntaxin-1A; HPC 1; p35 1; neuron-specific

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	antigen HPC-1; HPC-1; P35-1; SYN1A;
Gene ID	6804
mRNA Refseq	NM_001165903
Protein Refseq	NP_001159375
MIM	186590
UniProt ID	Q16623
Chromosome Location	7q11.2
Pathway	Acetylcholine Neurotransmitter Release Cycle, organism-specific biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Botulinum neurotoxicity, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Dopamine Neurotransmitter Release Cycle, organism-specific biosystem;
Function	ATP-dependent protein binding; SNAP receptor activity; SNARE binding; calcium channel inhibitor activity; calcium-dependent protein binding; glycoprotein binding; myosin binding; myosin head/neck binding; protein N-terminus binding; protein binding; protein binding, bridging; protein domain specific binding; protein heterodimerization activity;

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