

Recombinant Human SYN3 cell lysate

Cat. No. SYN3-1730HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. The protein encoded by this gene shares the synapsin family domain model, with domains A, C, and E exhibiting the highest degree of conservation. The protein contains a unique domain J, located between domains C and E. Based on this genes localization to 22q12.3, a possible schizophrenia susceptibility locus, and the established neurobiological roles of the synapsins, this family member may represent a candidate gene for schizophrenia. The TIMP3 gene is located within an intron of this gene and is transcribed in the opposite direction. Alternative splicing of this gene results in multiple splice variants that encode different isoforms.
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;

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GENE INFORMATION

Gene Name	SYN3 synapsin III [Homo sapiens]
Official Symbol	SYN3
Synonyms	SYN3; synapsin III; synapsin-3; cN28H9.2 (synapsin III);
Gene ID	8224
mRNA Refseq	NM_001135774
Protein Refseq	NP_001129246
MIM	602705
UniProt ID	O14994
Chromosome Location	22q12.3
Pathway	Dopamine Neurotransmitter Release Cycle, organism-specific biosystem; Neuronal System, organism-specific biosystem; Neurotransmitter Release Cycle, organism-specific biosystem; Serotonin Neurotransmitter Release Cycle, organism-specific biosystem; Transmission across Chemical Synapses, organism-specific biosystem;
Function	ATP binding; catalytic activity; ligase activity; nucleotide binding;

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