

Recombinant Mouse SHANK3 Protein

Cat. No. SHANK3-12M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse SHANK3 Protein was expressed in Yeast.
Species	Mouse
Source	Yeast
ProteinLength	533 to 665 aa
Description	Enables ionotropic glutamate receptor binding activity; protein C-terminus binding activity; and scaffold protein binding activity. A structural constituent of postsynaptic density. Involved in several processes, including learning or memory; modulation of chemical synaptic transmission; and postsynapse organization. Acts upstream of or within several processes, including MAPK cascade; negative regulation of actin filament bundle assembly; and regulation of AMPA glutamate receptor clustering. Located in glutamatergic synapse and neuron spine. Is extrinsic component of cytoplasmic side of plasma membrane. Is expressed in brain and cerebral cortex. Used to study Phelan-McDermid syndrome; autism spectrum disorder; and schizophrenia. Human ortholog(s) of this gene implicated in Phelan-McDermid syndrome and schizophrenia 15. Orthologous to human SHANK3 (SH3 and multiple ankyrin repeat domains 3).
Form	Liquid
Molecular Mass	15 kDa

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AA Sequence	DTRHETREDRTKRLFRHYTVGSYDSLTSYSDYVIDDKVAILQKRDHEGFG FVLRGA KAETPIEEFTPTPAFPALQYLESVDVEGVAWRAGLRTGDFLIEV NGVNVVKVGHKQ VVGLIRQGGNRLVMKVSVTR
Purity	> 85 % SDS-PAGE.
Applications	SDS-PAGE
Storage	Shipped at 4 centigrade. Store at -20 centigrade or -80 centigrade. Avoid freeze / thaw cycle.
Storage Buffer	pH: 7.2. Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine).
GENE INFORMATION	
Gene Name	Shank3 SH3 and multiple ankyrin repeat domains 3 [Mus musculus (house mouse)]
Official Symbol	SHANK3
Synonyms	Spank-2; proSAP2
Gene ID	58234
mRNA Refseq	NM_021423.4
Protein Refseq	NP_067398.3
UniProt ID	Q4ACU6

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