

Recombinant Mouse SHANK3 Protein, Flag-tagged

Cat. No. SHANK3-01M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant protein from the sequence of Mouse SHANK3 (NM 021423), with a Flag tag was expressed in human cells.
Species	Human
Source	Human Cells
Description	This gene is a member of the Shank gene family. Shank proteins are multidomain scaffold proteins of the postsynaptic density that connect neurotransmitter receptors, ion channels, and other membrane proteins to the actin cytoskeleton and G-protein-coupled signaling pathways. Shank proteins also play a role in synapse formation and dendritic spine maturation. Mutations in this gene are a cause of autism spectrum disorder (ASD), which is characterized by impairments in social interaction and communication, and restricted behavioral patterns and interests. Mutations in this gene also cause schizophrenia type 15, and are a major causative factor in the neurological symptoms of 22q13.3 deletion syndrome, which is also known as Phelan-McDermid syndrome. Additional isoforms have been described for this gene but they have not yet been experimentally verified.
Molecular Mass	191.3 kDa
Endotoxin	< 0.1 ng/μg of protein (< 1 EU/μg)
Purity	> 90% by SDS-PAGE gel and Coomassie Blue staining

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Applications	Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies; For research & development use only!
Storage Buffer	Purified protein formulated in a sterile solution of TBS buffer, pH7.4, without any preservatives
GENE INFORMATION	
Gene Name	SHANK3 SH3 and multiple ankyrin repeat domains 3 [Homo sapiens (human)]
Official Symbol	SHANK3
Synonyms	SHANK3; SH3 and multiple ankyrin repeat domains 3; PSAP2; SCZD15; PROSAP2; SPANK-2; DEL22q13.3; SH3 and multiple ankyrin repeat domains protein 3; proline rich synapse associated protein 2; shank postsynaptic density protein; shank3 postsynaptic density protein
Gene ID	85358
mRNA Refseq	NM_001372044
Protein Refseq	NP_001358973
MIM	606230
UniProt ID	Q9BYB0

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