



SHANK3 blocking peptide (CDBP6094)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. [provided by RefSeq, Mar 2012]
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Conjugate	Unconjugated
Applications	Used as a blocking peptide in immunoblotting applications.
Format	Liquid
Concentration	200 µg/mL
Size	0.05 mg
Preservative	None
Storage	-20°C

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; shank postsynaptic density protein; proline rich synapse associated protein 2
Entrez Gene ID	85358
mRNA Refseq	NM_033517
Protein Refseq	NP_277052
UniProt ID	Q9BYB0
Pathway	Glutamatergic synapse; Signaling events regulated by Ret tyrosine kinase
Function	GKAP/Homer scaffold activity; SH3 domain binding; actin binding; identical protein binding; ionotropic glutamate receptor binding; protein C-terminus binding; protein binding; scaffold protein binding; zinc ion binding