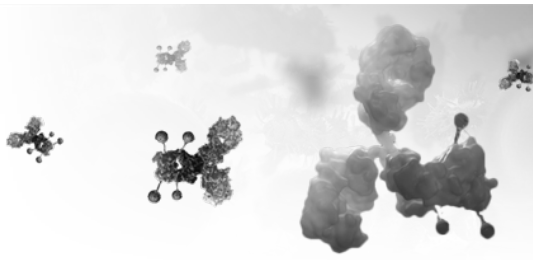

Anti-SHANK2 (aa 1034-1124) polyclonal antibody (DPAB-DC1019)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes a protein that is a member of the Shank family of synaptic proteins that may function as molecular scaffolds in the postsynaptic density of excitatory synapses. Shank proteins contain multiple domains for protein-protein interaction, including ankyrin repeats, and an SH3 domain. This particular family member contains a PDZ domain, a consensus sequence for cortactin SH3 domain-binding peptides and a sterile alpha motif. The alternative splicing demonstrated in Shank genes has been suggested as a mechanism for regulating the molecular structure of Shank and the spectrum of Shank-interacting proteins in the postsynaptic densities of the adult and developing brain. Alterations in the encoded protein may be associated with susceptibility to autism spectrum disorder. Alternative splicing results in multiple transcript variants.
Immunogen	SHANK2 (NP_036441, 1034 a.a. ~ 1124 a.a) partial recombinant protein with GST tag. The sequence is SILQQMNREKLAKPGEGLDSPMGAKSASLAPRSPEIMSTISGTRSTTVTFTVRPGTSQPI TLQSRPPDYESRTSGTRRAPSPVVSPTEMNK
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

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Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	SHANK2 SH3 and multiple ankyrin repeat domains 2 [Homo sapiens (human)]
Official Symbol	SHANK2
Synonyms	SHANK2; SH3 and multiple ankyrin repeat domains 2; SHANK; AUTS17; CORTBP1; CTTNBP1; ProSAP1; SPANK-3; SH3 and multiple ankyrin repeat domains protein 2; cortactin-binding protein 1; GKAP/SAPAP interacting protein; cortactin SH3 domain-binding protein; proline-rich synapse associated protein 1; proline-rich synapse-associated protein 1;
Entrez Gene ID	22941
Protein Refseq	NP_036441
UniProt ID	Q9UPX8
Chromosome Location	11q13.2
Pathway	Glutamatergic synapse;
Function	GKAP/Homer scaffold activity; SH3 domain binding; ionotropic glutamate receptor binding; protein binding

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