

SHANK3 Antibody (Center)

ALTERNATE NAMES:	SH3 and multiple ankyrin repeat domains 3, ProSAP2, PSAP2, SPANK-2, Proline-rich synapse-associated protein 2
CATALOG #:	5317-100
AMOUNT:	100 µg
HOST:	Rabbit
ISOTYPE:	IgG
IMMUNOGEN:	SHANK3 antibody was raised against a 19 amino acid synthetic peptide near the center of human SHANK3.
PURIFICATION:	Affinity chromatography purified via peptide column
FORMULATION:	100 µg (1 mg/ml) in 1X PBS containing 0.02 % sodium azide.
SPECIES REACTIVITY:	Human, Mouse
STORAGE CONDITIONS:	Can be stored at 4°C for three months. For long term storage, store at -20°C. Avoid freeze/thaw cycles.

DESCRIPTION:

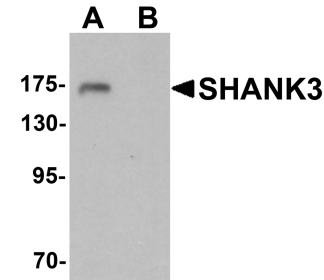
SH3 and multiple ankyrin repeat domains 3 (SHANK3), a member of the Shank gene family, plays a role in synapse formation and dendritic spine maturation. Shank proteins (Shank 1-3) containing PDZ domains are scaffold proteins of the postsynaptic density (PSD) that connect neurotransmitter receptors and ion channels proteins to the actin cytoskeleton and G-protein-coupled signaling pathways. Transcript splice variation in the Shank family influences the spectrum of Shank-interacting proteins in the PSDs of adult and developing brain to ensure normal development. Mutations of SHANK3 are a cause of autism spectrum disorder (ASD) and the neurological symptoms of 22q13.3 deletion syndrome.

SPECIFICITY: At least three alternatively spliced transcript isoforms of SHANK3 are known to exist.

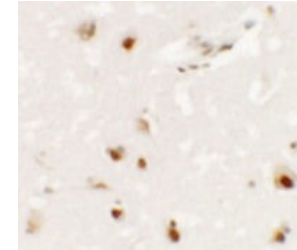
APPLICATION: Western Blot: 1 µg/ml, IHC: 2.5 µg/ml, ELISA

Note: *This information is only intended as a guide. The optimal dilutions must be determined by the user*

FOR RESEARCH USE ONLY! Not to be used on humans.



Western blot analysis of SHANK3 in 3T3 cell lysate with SHANK3 antibody at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of SHANK3 in human brain tissue with SHANK3 antibody at 2.5 µg/mL.

RELATED PRODUCTS:

- PIST Antibody (Center) (Cat No. 5081-100)
- PIST Antibody (CT) (Cat No. 5080-100)