

Anti-SHANK3 Antibody

Catalog Number: A01231

About SHANK3

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.

Overview

Product Name	Anti-SHANK3 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-SHANK3 Antibody (Catalog # A01231). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	SHANK3 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	SHANK3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9BYB0

Technical Details

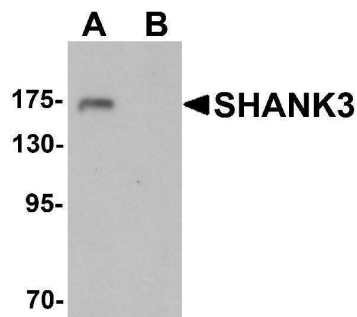
Immunogen	SHANK3 antibody was raised against a 19 amino acid synthetic peptide near the center of human SHANK3. The immunogen is located within amino acids 890 - 940 of SHANK3.
Predicted Reactive Species	Bovine, Rat
Cross Reactivity	At least three alternatively spliced transcript isoforms of SHANK3 are known to exist.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	SHANK3 Antibody is affinity chromatography purified via peptide column.

Suggested Dilutions

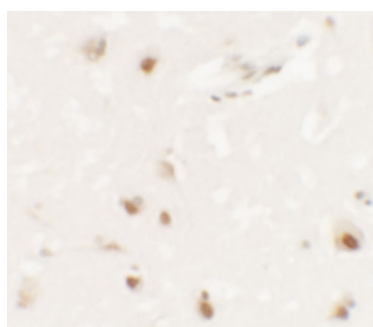
SHANK3 antibody can be used for detection of SHANK3 by Western blot at 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 2.5 ug/mL.

Antibody validated: Western Blot in mouse samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

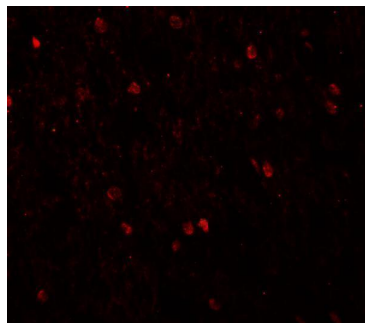
Anti-SHANK3 Antibody (A01231) Images



Western blot analysis of SHANK3 in 3T3 cell lysate with SHANK3 antibody at 1 ug/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 ug/mL.



Immunofluorescence of SHANK3 in human brain tissue with SHANK3 antibody at 20 ug/mL.

1 Publications Citing This Product

1. PubMed ID: 10.1007/s10571-016-0423-7, Expression of SHANK3 in the Temporal Neocortex of Patients with Intractable Temporal Epilepsy and Epilepsy Rat Models

Visit bosterbio.com/anti-shank3-antibody-a01231-boster.html to see all 1 publications.

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Anti-SHANK3 Antibody

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