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Datasheet for 600-401-EH9

SHANK3 Antibody

Overview

Description:	Anti-SHANK3 (RABBIT) Antibody - 600-401-EH9
Item No.:	600-401-EH9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	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.
Synonyms:	SHANK3 Antibody, PSAP2, SCZD15, PROSAP2, SPANK-2, DEL22q13.3, KIAA1650, PSAP2, SH3 and multiple ankyrin repeat domains protein 3, Proline-rich synapse-associated protein 2, Shank3
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SHANK3
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-SHANK3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the internal region of human SHANK3.
Purity/Specificity:	Anti-SHANK3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least three alternatively spliced transcript isoforms of SHANK3 are known to exist.
Relevant Links:	• UniProtKB - Q9BYB0 • GeneID - 85358 • NCBI - NP_001073889

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-SHANK3 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 185 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	2.5 µg/mL
IHC:	2.5 µg/mL
WB:	1 µg/mL

Formulation

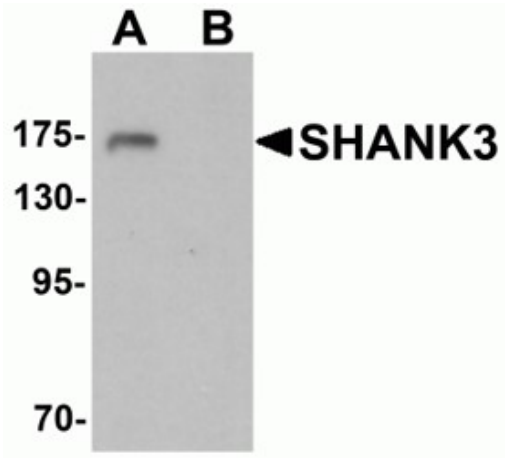
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

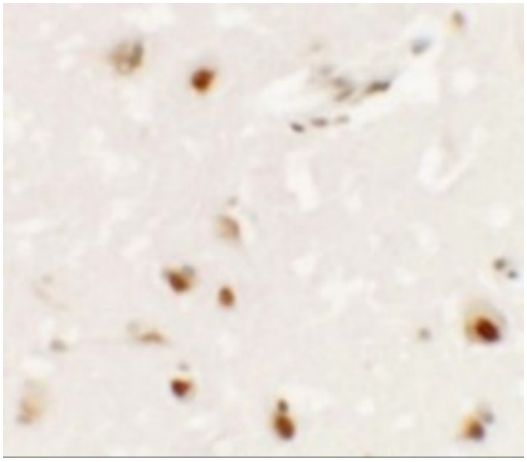
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

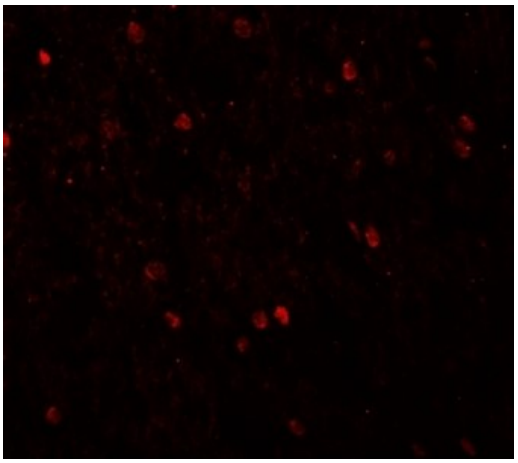
Images



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



Immunohistochemistry
Immunohistochemistry of SHANK3.
Tissue: human brain tissue.
Primary Antibody: SHANK3 antibody at 2.5 µg/mL.



Immunofluorescence Microscopy
Immunofluorescence of SHANK3.
Tissue: human brain tissue.
Primary Antibody: SHANK3 antibody at 20 µg/mL.

Disclaimer

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