

Rabbit anti-Human, Mouse SHANK3 Polyclonal Antibody | anti-SHANK3 antibody

SHANK3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA10913	Rabbit	Human, Mouse	ELISA, Western Blot, Immunohistochemistry, Immunofluorescence

PRODUCT SYNONYMS

SHANK3; Polyclonal Antibody; SHANK3 Antibody; PSAP2; SCZD15; PROSAP2; SPANK-2; DEL22q13.3; KIAA1650; SH3 and multiple ankyrin repeat domains protein 3; Proline-rich synapse-associated protein 2; Shank3; SH3 and multiple ankyrin repeat domains 3; anti-SHANK3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	At least three alternatively spliced transcript isoforms of SHANK3 are known to exist.
Purity/Purification	SHANK3 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid; SHANK3 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration	1 mg/mL (varies by lot)
Sequence Length	1,612
Applicable Applications for anti-SHANK3 antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Application Notes	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.
Conjugate	Unconjugated
Immunogen	SHANK3 antibody was raised against a 19 amino acid synthetic peptide near the center of human SHANK3. Immunogen is located withing amino aids 890-940 of SHANK3
Positive Control	1) Cat. No. - 3T3 (NIH) Cell Lysate 2) Human Brain Tissue Slide
Note	Optimal dilutions for each application to be determined by the researcher.
Preparation and Storage	SHANK3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

IMAGES



IF (Immunofluorescence)
Immunofluorescence of SHANK3 in human brain tissue with SHANK3 antibody at 20 μg/mL.



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



WB (Western Blot)
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.

ADDITIONAL INFORMATION

Related Product Information for anti-SHANK3 antibody

SHANK3 Antibody: 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	122937241
NCBI GeneID	85358
NCBI Accession #	NP_001073889
NCBI GenBank Nucleotide #	NM_001080420.1
UniProt Accession #	Q9BYB0; Q8TET3; D7UT47
NCBI Official Synonym Full Names	SH3 and multiple ankyrin repeat domains 3
NCBI Official Symbol	SHANK3
NCBI Official Synonym Symbols	PSAP2; SCZD15; PROSAP2; SPANK-2; DEL22q13.3
NCBI Protein Information	SH3 and multiple ankyrin repeat domains protein 3
UniProt Protein Name	SH3 and multiple ankyrin repeat domains protein 3
UniProt Gene Name	SHANK3
UniProt Synonym Gene Names	KIAA1650; PROSAP2; PSAP2; Shank3; ProSAP2
UniProt Entry Name	SHAN3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.