

Datasheet for ABIN656710
anti-SHANK2 antibody (AA 879-908)[Go to Product page](#)[1 Image](#)[1 Publication](#)

Overview

Quantity:	400 µL
Target:	SHANK2
Binding Specificity:	AA 879-908
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SHANK2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This SHANK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 879-908 amino acids from the Central region of human SHANK2.
Clone:	RB31120
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	SHANK2
Alternative Name:	SHANK2 (SHANK2 Products)
Background:	This gene encodes a protein that is a member of the Shank family of synaptic proteins that may

Target Details

function as molecular scaffolds in the postsynaptic density (PSD). Shank proteins contain multiple domains for protein-protein interaction, including ankyrin repeats, an SH3 domain, a PSD-95/Dlg/ZO-1 domain, a sterile alpha motif domain, and a proline-rich region. 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 PSDs of adult and developing brain. Two alternative splice variants, encoding distinct isoforms, are reported. Additional splice variants exist but their full-length nature has not been determined. [provided by RefSeq].

Molecular Weight: 158822

Gene ID: 22941

NCBI Accession: [NP_036441](#)

UniProt: [Q9UPX8](#)

Application Details

Application Notes: WB: 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: SHANK2 Antibody (Center) can be refrigerated at 2-8 °C for up to 6 months. For long term storage, place the at -20 °C.

Expiry Date: 6 months

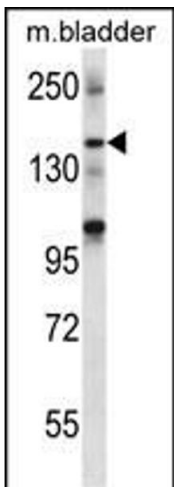
Publications

Product cited in: Davidson, Robinson, Rollinson, Pickering-Brown, Xiao, Robertson, Mann: "Immunohistochemical

detection of C9orf72 protein in frontotemporal lobar degeneration and motor neurone disease: patterns of immunostaining and an evaluation of commercial antibodies." in: **Amyotrophic lateral sclerosis & frontotemporal degeneration**, Vol. 19, Issue 1-2, pp. 102-111, (2018) ([PubMed](#)).

Sullivan, Zhou, Robins, Paushter, Kim, Smolka, Hu: "The ALS/FTLD associated protein C9orf72 associates with SMCR8 and WDR41 to regulate the autophagy-lysosome pathway." in: **Acta neuropathologica communications**, Vol. 4, Issue 1, pp. 51, (2017) ([PubMed](#)).

Burberry, Suzuki, Wang, Moccia, Mordes, Stewart, Suzuki-Uematsu, Ghosh, Singh, Merkle, Koszka, Li, Zon, Rossi, Trowbridge, Notarangelo, Eggan: "Loss-of-function mutations in the C9ORF72 mouse ortholog cause fatal autoimmune disease." in: **Science translational medicine**, Vol. 8, Issue 347, pp. 347ra93, (2017) ([PubMed](#)).



Western Blotting

Image 1. SHANK2 Antibody (Center) (ABIN656710 and ABIN2845940) western blot analysis in mouse bladder tissue lysates (35 µg/lane). This demonstrates the SHANK2 antibody detected the SHANK2 protein (arrow).