

## Product Datasheet

## Anti-Shank1 Antibody FL490 Conjugate



## Overview

<b>Catalog #</b>	75-064-FL490
<b>Conjugate</b>	FL490 Ex: 491 nm, Em: 515 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	N22/21
<b>Size</b>	200 µL
<b>Concentration</b>	0.5 mg/mL
<b>Host Species</b>	Mouse Monoclonal
<b>Format</b>	Purified by Protein A chromatography
<b>Buffer</b>	PBS with 0.09% azide
<b>Applications</b>	ICC, IHC
<b>Species Reactivity</b>	Human, Mouse, and Rat
<b>Immunogen</b>	Fusion protein amino acids 469-691 (SH3/PDZ domains) of rat Shank1 (accession number Q9WV48) produced recombinantly in E. Coli
<b>Molecular Weight</b>	190-220 kDa (alternative splice variants)
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-064-FL490, RRID: AB_2939268

## Details

<b>Target Description</b>	SH3 and multiple ankyrin repeat domains protein 1, or shank 1 is a member of the shank family. Shank 1 binding domains include a SH3 domain, a proline rich domain, a PDZ domain and ankyrin repeat domains. Unlike other shank family proteins, shank 1 is found in only in brain in the neuropil of cortex, CA1 region hippocampus and molecular layer of cerebellum, amygdala, substantia nigra and thalamus. Cellularly, shank 1 can be found in cytoplasm, cell junctions, postsynaptic cell membrane and postsynaptic density. Many isoforms of shank 1 exist, and some are expressed during development, while others are expressed in mature tissue. Shank 1 acts as a scaffold protein anchoring and connecting membrane bound receptors and other proteins to the cytoskeleton in neurons to enable cell signaling. In this manner, Shank 1 may play a role in synapse formation and dendritic spine maturation. Mutations in this gene have been associated with autism spectrum disorder and diabetic encephalopathy.
<b>Specificity</b>	No cross-reactivity against Shank2 or Shank3
<b>Purification Method</b>	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography and conjugation of purified mAb. Purified mAbs are >90% specific antibody.

**Quality Control Tests**

Each new lot of antibody is quality control tested by western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.

**Storage**

Aliquot and store at  $\leq -20^{\circ}\text{C}$  for long term storage. For short term storage, store at  $2-8^{\circ}\text{C}$ . For maximum recovery of product, centrifuge the vial prior to removing the cap.

**Our Guarantee**

---

As an original manufacturer, we are dedicated to creating quality and reproducible antibodies that further your research. We provide personalized customer support from the scientists that made the antibody and offer a free replacement or 100% refund if we cannot resolve an issue. Order today and experience our 50+ year passion for science.

**Note:** For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, viewable on our website.