

Product Datasheet

Anti-Shank1 Antibody FL594 Conjugate



Overview

Catalog #	75-064-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG1
Clone Number	N22/21
Size	200 µL
Concentration	0.5 mg/mL
Host Species	Mouse Monoclonal
Format	Purified by Protein A chromatography
Buffer	PBS with 0.09% azide
Applications	ICC, IHC
Species Reactivity	Human, Mouse, and Rat
Immunogen	Fusion protein amino acids 469-691 (SH3/PDZ domains) of rat Shank1 (accession number Q9WV48) produced recombinantly in E. Coli
Molecular Weight	190-220 kDa (alternative splice variants)
Cite this Antibody	Antibodies Inc Cat# 75-064-FL594, RRID: AB_2939270

Details

Target Description	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.
Specificity	No cross-reactivity against Shank2 or Shank3
Purification Method	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.

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