

Product Datasheet

Anti-Shank2 Antibody FL650 Conjugate



Overview

Catalog #	75-088-FL650
Conjugate	FL650 Ex: 655 nm, Em: 676 nm
Isotype	IgG1
Clone Number	N23B/6
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, Rabbit, and Rat
Immunogen	Fusion protein amino acids 84-309 (SH3/PDZ domains) of rat Shank2 (accession number Q9QX74) produced recombinantly in E. Coli
Molecular Weight	160 kDa
Cite this Antibody	Antibodies Inc Cat# 75-088-FL650, RRID: AB_2939339

Details

Target Description	SH3 and multiple ankyrin repeat domains protein 2, or shank 2 is a member of the shank family. Shank 2 binding domains include a SH3 domain, a proline rich domain, and a PDZ domain. Shank 2 is found in kidney, liver tissue, and epithelial cells. In brain, Shank 2 is expressed at the apical cell membrane, cytoplasm, synapse, postsynaptic density, growth cone, and dendritic spine. Some isoforms of shank 2 are expressed during development, while others are expressed in mature tissue. Shank 2 acts as a scaffold protein anchoring and connecting membrane bound receptors, including NMDA and glutamate receptors and other proteins to the cytoskeleton in neurons to enable cell signaling. In this manner, Shank 2 may play a role in synapse formation and dendritic spine maturation. Mutations in the Shank 2 gene have been associated with autism spectrum disorder and blount disease.
Specificity	No cross-reactivity against Shank1 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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