

## Product Datasheet

## Anti-Shank3 Antibody FL650 Conjugate



## Overview

<b>Catalog #</b>	75-344-FL650
<b>Conjugate</b>	FL650 Ex: 655 nm, Em: 676 nm
<b>Isotype</b>	IgG2a
<b>Clone Number</b>	N367/62
<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>	Mouse and Rat
<b>Immunogen</b>	Fusion protein amino acids 538-626 (SH3 domain) of rat Shank3 (accession number Q9JLU4) produced recombinantly in E. Coli
<b>Molecular Weight</b>	190 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-344-FL650, RRID: AB_2940171

## Details

<b>Target Description</b>	SH3 and multiple ankyrin repeat domains protein 3, or shank 3 (also known as proline-rich synapse-associated protein 2 (ProSAP2)) is a member of the shank family. Shank 3 binding domains include a SH3 domain, a proline rich domain, a PDZ domain and ankyrin repeat domains. Shank 3 is found in many tissues including heart and spleen, but is most abundantly expressed in brain at the post synaptic density. Shank 3 acts as a scaffold protein anchoring and connecting membrane bound receptors, ion channels and other proteins to the cytoskeleton in neurons to enable cell signaling. In this manner, Shank 3 may play a role in synapse formation and dendritic spine maturation. Mutations in the Shank 3 gene have been associated with neuropsychiatric diseases, including autism spectrum disorder.
<b>Specificity</b>	Does not cross-react with Shank1 or Shank2
<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**

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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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