

Product Datasheet

Anti-Shank3 Antibody FL490 Conjugate



Overview

Catalog #	75-109-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG2b
Clone Number	N69/46
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	Synthetic peptide amino acids 840-857 (PEKLPGLRKGIPRTKSV) of rat Shank3 (accession number Q9JLU4)
Molecular Weight	190 kDa
Cite this Antibody	Antibodies Inc Cat# 75-109-FL490, RRID: AB_2939408

Details

Target Description	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.
Specificity	No cross-reactivity against Shank1 or Shank2
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 on cells overexpressing target protein and confirmed to give the expected staining pattern.

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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