

Product Datasheet

Anti-Synapsin-1/3 Antibody FL594 Conjugate



Overview

Catalog #	75-497-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG2b
Clone Number	L125/129
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	IHC
Species Reactivity	Human, Mouse, and Rat
Immunogen	Fusion protein amino acids 76-417 (actin-binding and synaptic-vesicle binding domains) of human Synapsin-III (accession number O14994) produced recombinantly in E. Coli
Molecular Weight	60 kDa
Cite this Antibody	Antibodies Inc Cat# 75-497-FL594, RRID: AB_2940658

Details

Target Description	The synapsin family of proteins are neuron specific phospho-proteins comprised of synapsins I, II and III. Synapsins I and II are abundantly expressed pre-synaptic proteins that play key roles in synaptic plasticity and synaptogenesis (Feng et al., 2002; Nayak et al., 1996). Synapsin III is the most recent member of the synapsin family to be identified and is primarily expressed in extra-synaptic sites such as cell bodies and growth cones (Ferreira A. et al., 2000). Synapsin III is expressed at much lower levels than synapsin I and II in the adult brain and is therefore thought to be involved in early neural development (Kao HT, et al., 1998).
Specificity	No cross-reactivity reported
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.

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