

Product Datasheet

Anti-Synaptotagmin-12 Antibody FL594 Conjugate



Overview

Catalog #	75-304-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG1
Clone Number	N277/7
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	Mouse and Rat
Immunogen	Fusion protein amino acids 168-255 (cytoplasmic C2A domain) of mouse Synaptotagmin-12 (also known as Syt12, Synaptotagmin XII, SytXII, Synaptotagmin-related gene 1 protein, Srg1 and Sytr1, accession number Q920N7) produced recombinantly in E. Coli
Molecular Weight	45 kDa (plus others)
Cite this Antibody	Antibodies Inc Cat# 75-304-FL594, RRID: AB_2940062

Details

Target Description	Synaptotagmins are a family of calcium sensing, membrane trafficking proteins. 17 different synaptotagmins have been identified in mammals. Synaptotagmin 12 differs from classical synaptotagmins in that it does not bind Ca ²⁺ . In synaptic vesicles, synaptotagmin-12 forms a complex with synaptotagmin-1 that prevents synaptotagmin-1 from interacting with SNARE complexes (Maximov A. et al., 2007).
Specificity	Does not cross-react with Synaptotagmin-6 (or other Synaptotagmins)
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.

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