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Datasheet for 212-301-E35

Synaptojanin 1 Antibody

Overview

Description:	Anti-Synaptojanin 1 (MOUSE) Monoclonal Antibody - 212-301-E35
Item No.:	212-301-E35
Size:	100 µL
Applications:	IHC, WB
Reactivity:	Rat
Host Species:	Mouse

Product Details

Background:	Synaptojanin 1 Monoclonal Antibody detects Synaptojanin 1, which is a phosphatidylinositol phosphatase involved in clathrin-mediated endocytosis of synaptic vesicles. Synaptojanin 1 has two alternatively spliced isoforms; one that is ~ 145 kDA and is exclusively expressed in neurons, and the other ~ 170 kDa which is expressed in non-neuronal, peripheral tissues. The gene which encodes Synaptojanin 1, SYNJ1, has been mapped to chromosome 21 thus making it a candidate for involvement in Down's syndrome (DS). It has recently been demonstrated that Ts65Dn mice (the most commonly used model of DS) have altered phosphatidylinositol-4,5-bisphosphate metabolism. This defect is rescued by restoring SYNJ1 to disomy in the Ts65Dn mice.
Synonyms:	mouse anti-Synaptojanin 1 Antibody, Synaptic inositol-1,4,5-trisphosphate 5-phosphatase 1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	5H1
Format:	IgG1

Target Details

Gene Name:	Synj1
Reactivity:	Rat
Immunogen Type:	Recombinant Protein

Immunogen:	Anti-Synaptojanin 1 Monoclonal Antibody was produced in mouse by repeated immunizations with recombinant protein from the C-terminal region of rat synaptojanin 1.
Purity/Specificity:	Anti-Synaptojanin 1 Monoclonal Antibody is directed against rat synaptojanin 1. Synaptojanin 1 antibody was Protein G purified from cell culture supernatant. Immunolabeling blocked by preadsorption of antibody with the protein used to generate the antibody. Cross reactivity from other species has not been determined.
Relevant Links:	• UniProtKB - Q62910 • GeneID - 85238 • UniProtKB - Q62910.3

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Synaptojanin 1 antibody is tested for use in Western Blotting and IHC. Expect a band of approximately 145 kDa in size corresponding to synaptojanin I proteins of rat brain extracts. Researchers should determine optimal titers for applications that are not stated below.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	1:1000
WB:	1:1000

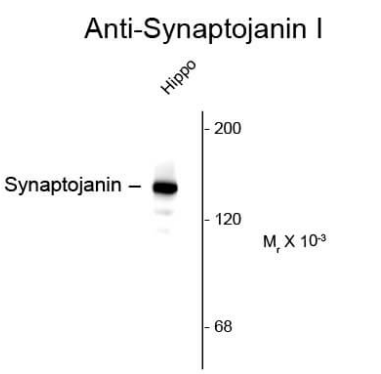
Formulation

Physical State:	Liquid
Concentration:	Titrated value sufficient to run approximately 10 mini blots.
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western blot of rat hippocampal lysate showing specific immunolabeling of the ~145k synaptojanin protein.

Western Blot

Western Blot of Mouse anti-Synaptojanin 1 antibody. Lane 1: rat hippocampal lysate. Lane 2: none. Load: 10 µg per lane. Primary antibody: Synaptojanin 1 antibody at 1:1,000 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 145 kDa for Synaptojanin 1. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.