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Datasheet for 600-401-C92

Synapsin I Antibody

Overview

Description:	Anti-Synapsin I (RABBIT) Antibody - 600-401-C92
Item No.:	600-401-C92
Size:	10 µg
Applications:	IHC, IP, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Synapsin I antibody detects Synapsin I protein which plays a key role in synaptic plasticity in brain. This effect is due in large part to the ability of the synapsins to regulate the availability of synaptic vesicles for release. In addition to its role in plasticity, the expression of synapsin I is a precise indicator of synapse formation. Thus, synapsin I immunocytochemistry provides a valuable tool for the study of synaptogenesis. The role of synapsin in synaptic plasticity and in synaptogensis is regulated by phosphorylation. Anti-Synapsin I Antibody is ideal for investigators involved in Cell Signaling, Neuroscience, Signal Transduction research.
Synonyms:	Synapsin I, SYN1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SYN1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Native Protein
Immunogen:	Anti-Synapsin I Antibody was produced in rabbit by repeated immunizations with native bovine synapsin I protein purified from bovine brain.

Purity/Specificity:	Anti-Synapsin I antibody is directed against bovine Synapsin I. The antibody was affinity purified from monospecific antiserum by immunoaffinity purification. Immunolabeling blocked by preadsorption of antibody with the protein used to generate the antibody. Reactivity is expected from human, mouse and rat. Cross reactivity from other sources has not been determined.
Relevant Links:	• NCBI - NP_776616.1 • UniProtKB - P17599 • GeneID - 281510

Application Details

Tested Applications:	IHC, IP, WB
Application Note:	Anti-Synapsin I antibody is tested for Western Blotting, Immunoprecipitation, and IHC and suitable for IF. Expect a band of approximately 78 kDa in size corresponding to the synapsin I doublet in Western Blots 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.
IF:	1:2000
IHC:	1:2000
IP:	1µg per 200µg lysate
WB:	1:1000

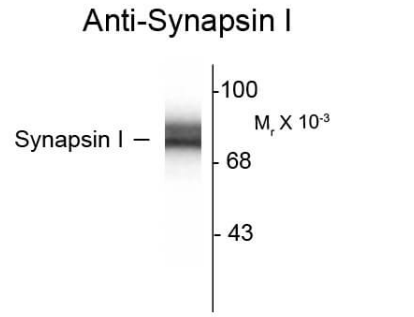
Formulation

Physical State:	Lyophilized
Reconstitution Buffer:	0.05 M Tris Chloride, 0.15 M Sodium Chloride, pH 7.4

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western blot of 10ug of rat hippocampal lysate showing specific immunolabeling of the ~78k synapsin I protein doublet.

Western Blot

Western Blot of Rabbit anti-Synapsin I antibody. Lane 1: rat hippocampal (Hipp) lysate. Lane 2: none. Load: 10 µg per lane. Primary antibody: Synapsin I antibody at 1:1,000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 78 kDa for Synapsin I. 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.