

Datasheet for 600-401-EX9**SYNGR1 Antibody****Overview**

Description:	Anti-SYNGR1 (RABBIT) Antibody - 600-401-EX9
Item No.:	600-401-EX9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Synaptogyrins comprise a family of tyrosine-phosphorylated membrane proteins with two neuronal (SYNGR1 and SYNGR3) and one ubiquitous (SYNGR2) members. SYNGR1 and -3 are synaptic vesicle proteins, residing in some cases on the same synaptic vesicle, and are thought to be involved in the regulation of neurotransmitter release. SYNGR2, by contrast, is absent from synaptic vesicles. The role and localization of a fourth synaptogyrin, SYNGR4, is unclear. The gene for SYNGR1 is located at chromosome 22q13, a region linked to schizophrenia; however, there is mixed evidence suggesting that mutations in SYNGR1 might be associated with schizophrenia.
Synonyms:	SYNGR1 Antibody, Synaptogyrin-1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SYNGR1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SYNGR1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide from near the internal region of human SYNGR1.

Purity/Specificity: Anti-SYNGR1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with SYNGR1 from other sources has not been determined.

Relevant Links:

- [UniProtKB - O43759](#)
- [NCBI - NP_004702.2](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-SYNGR1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 25 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000

IF: 20 µg/mL

IHC: 2.5 µg/mL

WB: 1 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

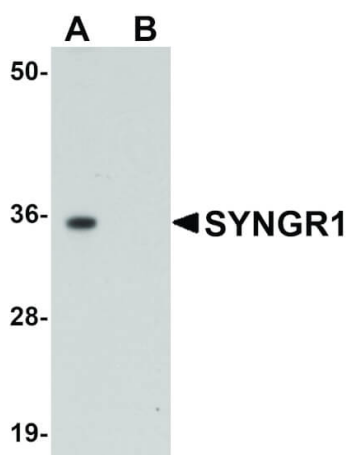
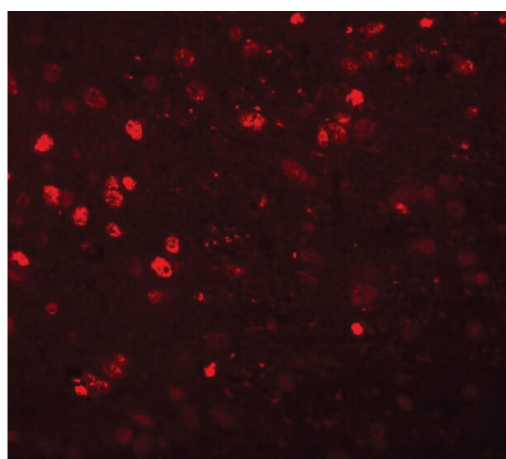
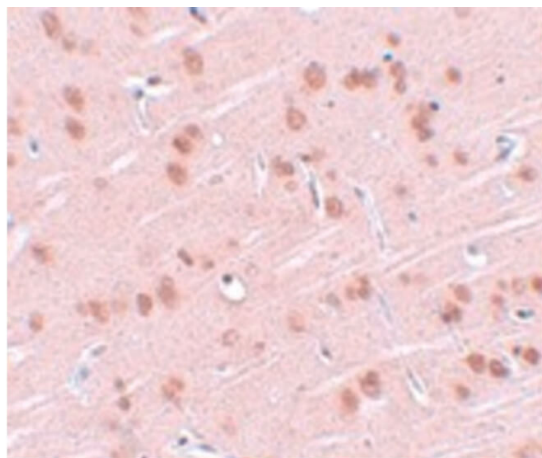
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of SYNGR1 antibody. Tissue: Rat brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: SYNGR1 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: SYNGR1 is a membrane protein. Staining: SYNGR1 as precipitated pink signal with brown nuclear counterstain.

Immunofluorescence Microscopy

Immunofluorescence Microscopy of SYNGR1 antibody. Tissue: Rat brain tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: SYNGR1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: SYNGR1 is a membrane protein. Staining: SYNGR1 as red fluorescent signal.

Western Blot

Western Blot of SYNGR1 antibody. Lane 1: Rat brain tissue lysate in the absence of blocking peptide. Lane 2: Rat brain tissue lysate in the presence of blocking peptide. Primary Antibody: Anti-SYNGR1 antibody at 1 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 25 kDa, 36 kDa for SYNGR1. Other band(s): SYNGR1 splice variants and isoforms.

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.