

Datasheet for 600-401-EY3**SYNPO Antibody****Overview**

Description:	Anti-SYNPO (RABBIT) Antibody - 600-401-EY3
Item No.:	600-401-EY3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	SYNPO, also known as synaptopodin, is an actin-associated protein in telencephalic dendrites and renal podocytes. SYNPO is tightly associated with the dendritic spine apparatus, and mice lacking the SYNPO gene lack the apparatus. These SYNPO-null mice also demonstrate an impaired ability to express long-term potentiation as well as deficits in spatial memory tasks, indicating that SYNPO is involved in the regulation of synaptic plasticity. Recent studies suggest that SYNPO is linked to neuronal calcium stores and plays a role in the calcium store-associated ability of neurons to undergo long-term plasticity.
Synonyms:	SYNPO Antibody, KIAA1029, Synaptopodin
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SYNPO
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SYNPO antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the C-terminus of human SYNPO.

Purity/Specificity:	Anti-SYNPO Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with SYNPO from other sources has not been determined.
Relevant Links:	• UniProtKB - Q8N3V7 • NCBI - NP_001103444.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-SYNPO 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 99 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 - 1:20,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	1-2 µg/mL

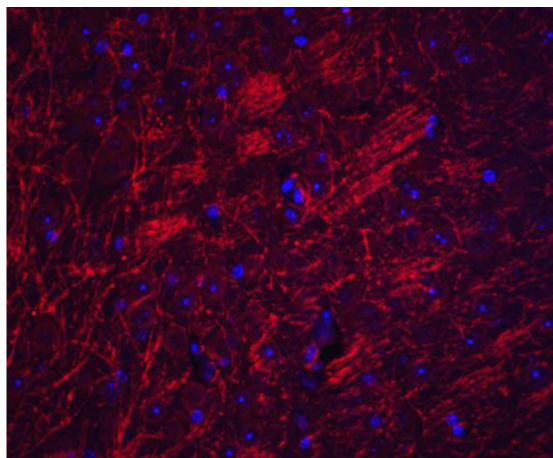
Formulation

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



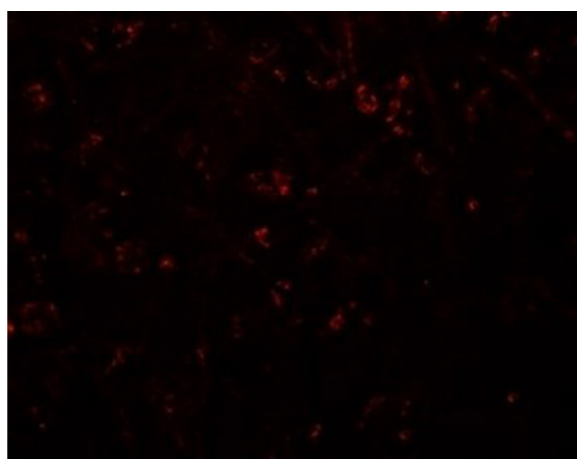
Immunofluorescence Microscopy

Immunofluorescence of SYNPO.

Tissue: mouse brain tissue.

Primary Antibody: Anti-SYNPO antibody at 20 $\mu\text{g/mL}$.

Staining: SYNPO Antibody (red), DAPI (blue).

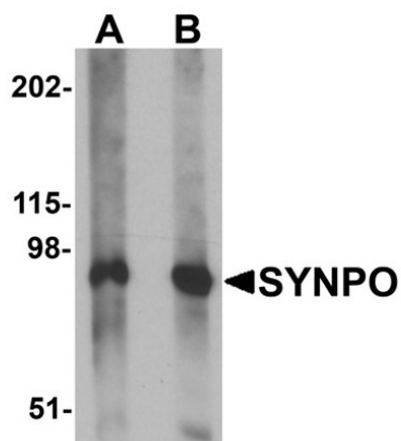


Immunofluorescence Microscopy

Immunofluorescence of SYNPO.

Tissue: human brain tissue.

Primary Antibody: Anti-SYNPO antibody at 20 $\mu\text{g/mL}$.



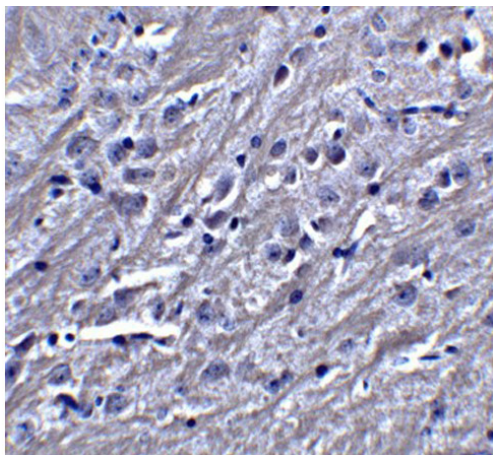
Western Blot

Western blot analysis of SYNPO.

Load: rat brain tissue lysate.

Primary Antibody: Anti-SYNPO antibody at (A) 1 $\mu\text{g/mL}$ and

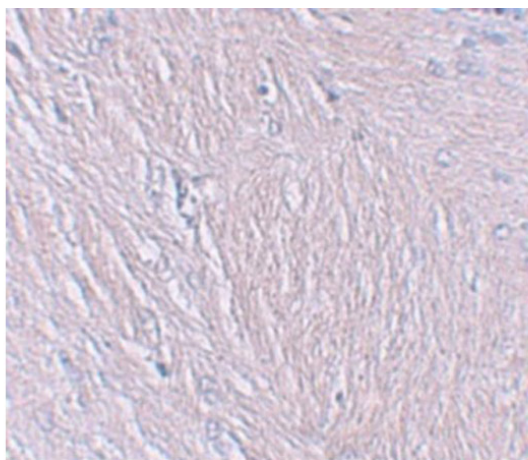
(B) 2 $\mu\text{g/mL}$.

**Immunohistochemistry**

Immunohistochemistry of SYNPO.

Tissue: mouse brain tissue.

Primary Antibody: Anti-SYNPO antibody at 5 µg/mL.

**Immunohistochemistry**

Immunohistochemistry of SYNPO.

Tissue: human brain tissue.

Primary Antibody: Anti-SYNPO antibody at 2.5 µg/mL.

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.