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Datasheet for 600-401-EY0

SYNGR2 Antibody

Overview

Description:	Anti-SYNGR2 (RABBIT) Antibody - 600-401-EY0
Item No.:	600-401-EY0
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, 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. SYNGR3 is predominantly expressed in brain and placenta. The exact function of SYNGR2 is unknown, but studies suggest that it may play a role in regulating membrane traffic in non-neuronal cells.
Synonyms:	SYNGR2 Antibody, Synaptogyrin-2, Cellugyrin
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SYNGR2
Reactivity:	Human, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SYNGR2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide from near the N-terminus of human SYNGR2.

Purity/Specificity:	Anti-SYNGR2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with SYNGR2 from other sources has not been determined.
Relevant Links:	• UniProtKB - O43760 • NCBI - NP_001307452.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-SYNGR2 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 - 1:20,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	1-2 µg/mL

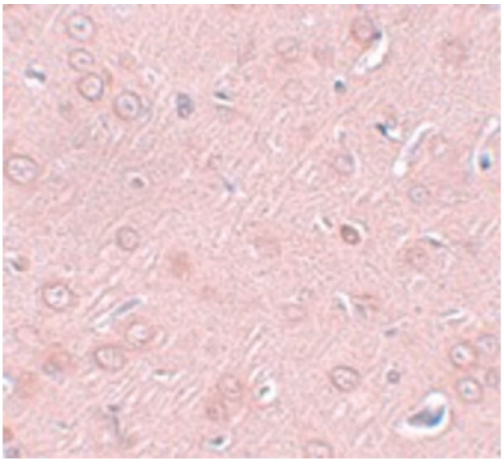
Formulation

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

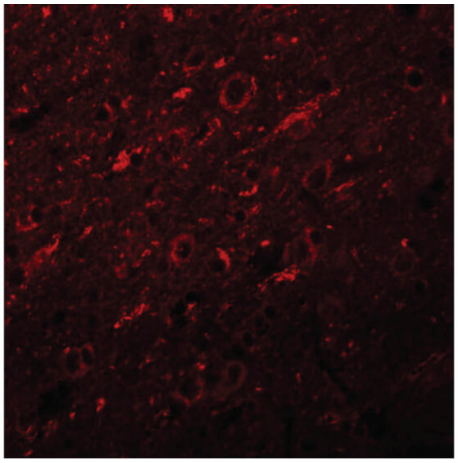
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

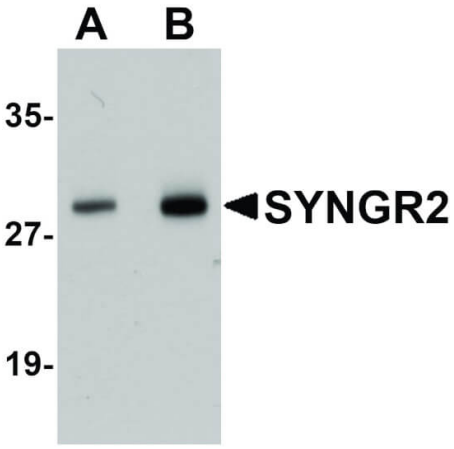
Images



Immunohistochemistry
Immunohistochemistry of SYNGR2 antibody. Tissue: Rat brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: SYNGR2 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: SYNGR2 is a membrane protein. Staining: SYNGR2 as precipitated pink signal with purple nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of SYNGR2 antibody. Tissue: Rat brain tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: SYNGR2 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: SYNGR2 is a membrane protein. Staining: SYNGR2 as red fluorescent signal.



Western Blot
Western Blot of SYNGR2 antibody. Lane 1: human lung tissue lysate with SYNGR2 antibody at 1 µg/mL. Lane 2: human lung tissue lysate with SYNGR2 antibody at 2 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, 30 kDa for SYNGR2. Other band(s): SYNGR2 splice variants and isoforms.

Disclaimer

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