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Datasheet for 600-401-EY1

SYNGR3 Antibody

Overview

Description:	Anti-SYNGR3 (RABBIT) Antibody - 600-401-EY1
Item No.:	600-401-EY1
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. SYNGR3 is predominantly expressed in brain and placenta. SYNGR3 is involved in the positive regulation of dopamine transporter activity and facilitates the physical and functional interactions of the transporter with the dopamine vesicular storage system, allowing a more efficient loading of the vesicles with extracellular dopamine after release.
Synonyms:	SYNGR3 Antibody, Synaptogyrin-3
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SYNGR3
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-SYNGR3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide from near the C-terminus of human SYNGR3.
Purity/Specificity:	Anti-SYNGR3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with SYNGR3 from other sources has not been determined.
Relevant Links:	• UniProtKB - O43761 • NCBI - NP_004200.2

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-SYNGR3 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

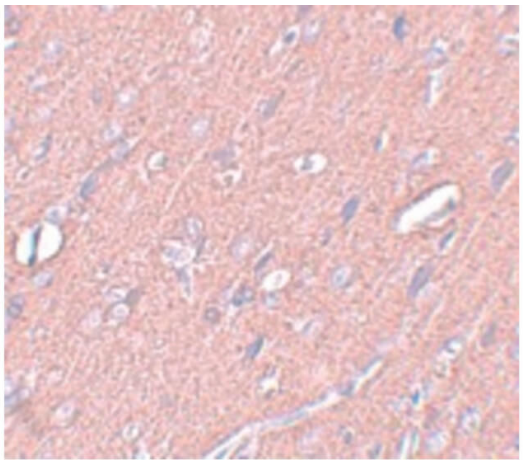
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

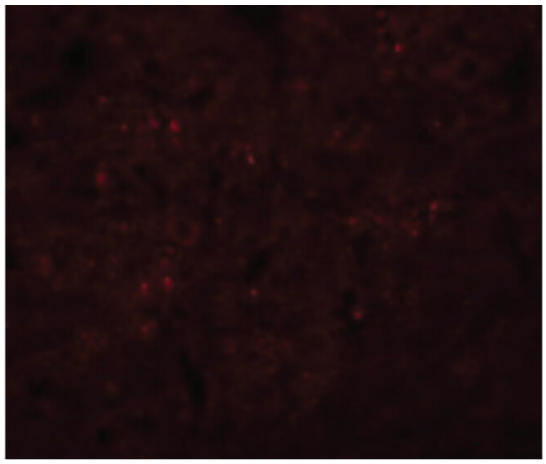
Shipping Condition:	Wet Ice

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.

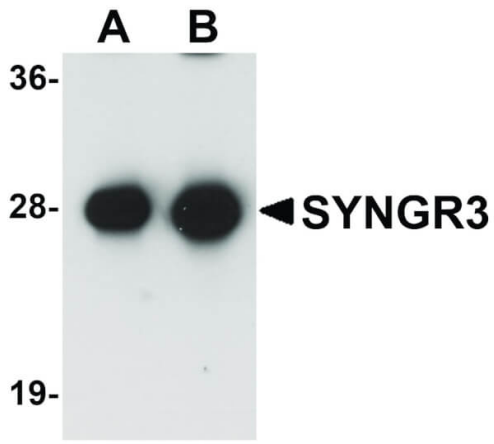
Images



Immunohistochemistry
Immunohistochemistry of SYNGR3 antibody. Tissue: Rat brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: SYNGR3 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: SYNGR3 is a membrane protein. Staining: SYNGR3 as precipitated pink signal with purple nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of SYNGR3 antibody. Tissue: Rat brain cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: SYNGR3 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: SYNGR3 is a membrane protein. Staining: SYNGR3 as red fluorescent signal.



Western Blot

Western Blot of SYNGR3 antibody. Lane 1: Mouse brain tissue lysate with SYNGR3 antibody at 1 µg/mL. Lane 2: Mouse brain tissue lysate with SYNGR3 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, 28 kDa for SYNGR3. Other band(s): SYNGR3 splice variants and isoforms.

Disclaimer

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