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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 600-401-EY9

SYPL2 Antibody

Overview

Description:	Anti-SYPL2 (RABBIT) Antibody - 600-401-EY9
Item No.:	600-401-EY9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	SYPL2, also known as Mitsugumin 29, was initially identified as a transmembrane protein from the triad junction in skeletal muscle that had significant homology with members of the synaptophysin family. SYPL2 is thought to participate in the excitation-contraction coupling process of skeletal muscle as SYPL2-null mice showed reduced muscle contractile force and altered triad junction structure and increased susceptibility to fatigue of the skeletal muscle. SYPL2 plays a critical role in muscle Ca2+ signaling by regulating the process of store-operated Ca2+ entry and interacts with ryanodine receptor (RyR), thereby influencing intracellular Ca2+ homeostasis through changes in the RyR/Ca2+ release function. Co-expression of SYPL2 and RyR in cultured cells leads to apoptotic cell death resulting from the depletion of Ca2+ from the intracellular stores.
Synonyms:	SYPL2 Antibody, MG29, Synaptophysin-like protein 2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SYPL2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-SYPL2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide near the C-terminus of human SYPL.
Purity/Specificity:	Anti-SYPL2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least two isoforms of SYPL2 are known to exist. SYPL2 antibody will not cross-react with SYPL1.
Relevant Links:	• UniProtKB - Q5VXT5 • GeneID - 284612 • NCBI - NP_001035799.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-SYPL2 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 30 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

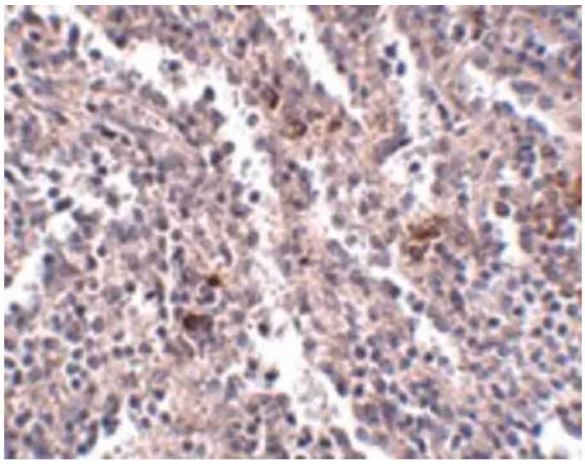
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

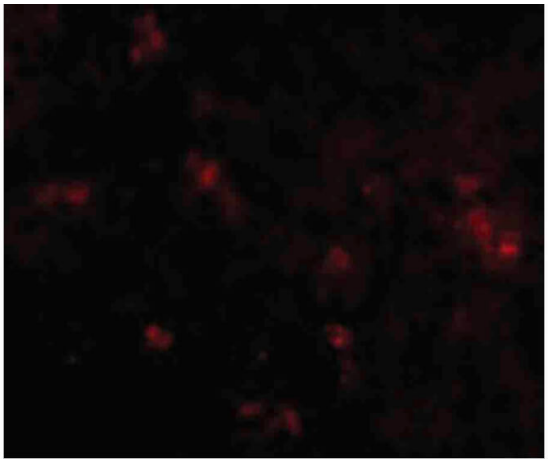
Shipping Condition:	Dry Ice

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.

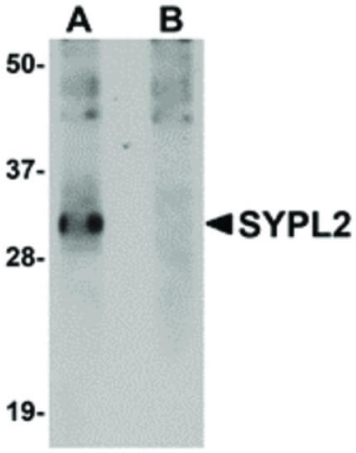
Images



Immunohistochemistry
Immunohistochemistry of SYPL2 antibody. Tissue: Human spleen tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: SYPL2 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: SYPL2 is nuclear and cytoplasmic. Staining: SYPL2 as precipitated brown signal with purple nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of SYPL2 antibody. Tissue: Human spleen cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: SYPL2 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: SYPL2 is nuclear and cytoplasmic. Staining: SYPL2 as red fluorescent signal.



Western Blot

Western Blot of SYPL2 antibody. Lane 1: Human Spleen tissue lysate in the absence of blocking peptide. Lane 2: Human Spleen tissue lysate in the presence of blocking peptide. Load: 35 µg per lane. Primary Antibody: Anti-SYPL2 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: 30 kDa, 30 kDa for SYPL2. Other band(s): SYPL2 splice variants and isoforms.

Disclaimer

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