

Anti-Synaptophysin-like protein 2 SYPL2 Antibody

Catalog Number: A14531

About SYPL2

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.

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Overview

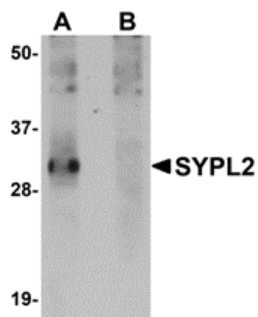
Product Name	Anti-Synaptophysin-like protein 2 SYPL2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Synaptophysin-like protein 2 SYPL2 Antibody (Catalog # A14531). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	SYPL2 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	SYPL2 antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q5VXT5

Technical Details

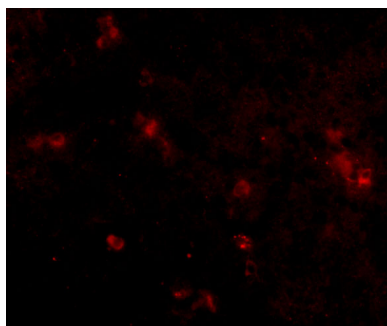
Immunogen	SYPL2 antibody was raised against a 15 amino acid synthetic peptide near the carboxy terminus of human SYPL. The immunogen is located within the last 50 amino acids of SYPL2.
Predicted Reactive Species	Rabbit

Cross Reactivity	At least two isoforms of SYPL2 are known to exist. SYPL2 antibody will not cross-react with SYPL1.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	SYPL2 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	SYPL2 antibody can be used for detection of SYPL2 by Western blot at 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

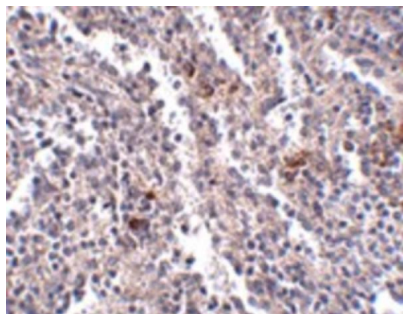
Anti-Synaptophysin-like protein 2 SYPL2 Antibody (A14531) Images



Western blot analysis of SYPL2 in human spleen tissue lysate with SYPL2 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunofluorescence of SYPL2 in Human Spleen cells with SYPL2 antibody at 20 ug/mL.



Immunohistochemistry of SYPL2 in human spleen tissue with SYPL2 antibody at 2.5 ug/mL.

[Anti-Synaptophysin-like protein 2 SYPL2 Antibody](#)

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