
SYPL2 Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 254104

Unit: 0.1 mg

Description:

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. At least two isoforms of SYPL2 are known to exist. SYPL2 antibody will not cross-react with SYPL1.

Isotype: Rabbit Ig

Applications: E, WB, IHC

Species Reactivity: H, M, R

Format: Each vial contains 0.1 ml IgG in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.

Alternate Names: SYPL2; Synaptophysin-like protein 2; mitsugumin 29; MG29

Accession No.: NP_001035799

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within human SYPL2.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:00-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.