



JPH2 Monoclonal Antibody

Catalog No	YP-mAb-07318
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	JPH2 JP2
Protein Name	Junctophilin-2 (JP-2) (Junctophilin type 2)
Immunogen	Synthesized peptide derived from human protein . at AA range: 611-660
Specificity	JPH2 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	76kD
Cell Pathway	[Junctophilin-2]: Cell membrane ; Peripheral membrane protein . Sarcoplasmic reticulum membrane ; Single-pass type IV membrane protein . Endoplasmic reticulum membrane ; Single-pass type IV membrane protein . The transmembrane domain is anchored in sarcoplasmic reticulum membrane, while the N-terminal part associates with the plasma membrane. In heart cells, it predominantly associates along Z lines within myocytes. In skeletal muscle, it is specifically localized at the junction of A and I bands. .; [Junctophilin-2 N-terminal fragment]: Nucleus . Accumulates in the nucleus of stressed hearts. .
Tissue Specificity	Specifically expressed in skeletal muscle and heart.
Function	domain:The MORN (membrane occupation and recognition nexus) repeats contribute to the plasma membrane binding, possibly by interacting with phospholipids.,function:Contributes to the stabilization of the junctional membrane complexes, which are common to excitable cells and mediate cross-talk between cell surface and intracellular ion channels. Probably acts by anchoring the plasma membrane and endoplasmic/sarcoplasmic reticulum. Contributes to the construction of skeletal muscle triad junctions, and plays an essential role in heart development.,similarity:Belongs to the junctophilin family.,similarity:Contains 8 MORN repeats.,subcellular location:Localized predominantly on the plasma membrane. The transmembrane domain is anchored in



endoplasmic/sarcoplasmic reticulum membrane, while the N-terminal part associates with the plasma membrane. In heart cells, it predominantly associates alone

Background

Junctional complexes between the plasma membrane and endoplasmic/sarcoplasmic reticulum are a common feature of all excitable cell types and mediate cross talk between cell surface and intracellular ion channels. The protein encoded by this gene is a component of junctional complexes and is composed of a C-terminal hydrophobic segment spanning the endoplasmic/sarcoplasmic reticulum membrane and a remaining cytoplasmic domain that shows specific affinity for the plasma membrane. This gene is a member of the junctophilin gene family. Alternative splicing has been observed at this locus and two variants encoding distinct isoforms are described. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images