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Jph2 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI13039

Specification

Jph2 antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	Q9ET78
Other Accession	NM_021566, NP_067541
Reactivity	**Human, Mouse, Rat, Rabbit, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Rabbit, Horse, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**75kDa KDa**

Jph2 antibody - N-terminal region - Additional Information

Gene ID 59091

Alias Symbol	**1110002E14Rik, JP-2, Jp2**

Other Names
Junctophilin-2, JP-2, Junctophilin type 2, Jph2, Jp2

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-Jph2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
Jph2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Jph2 antibody - N-terminal region - Protein Information

Name Jph2 {ECO:0000312|MGI:MGI:1891496}

Function
[Junctophilin-2]: Membrane-binding protein that provides a structural bridge between the plasma membrane and the sarcoplasmic reticulum and is required for normal excitation-contraction coupling in cardiomyocytes (PubMed:10949023, PubMed:19095005, PubMed:21339484). Provides a structural foundation for functional cross-talk between the cell surface and intracellular Ca(2+) release channels by maintaining the 12-15 nm

gap between the sarcolemma and the sarcoplasmic reticulum membranes in the cardiac dyads (PubMed:10949023, PubMed:19095005, PubMed:21339484). Necessary for proper intracellular Ca(2+) signaling in cardiac myocytes via its involvement in ryanodine receptor-mediated calcium ion release (PubMed:10949023, PubMed:19095005, PubMed:21339484). Contributes to the construction of skeletal muscle triad junctions (PubMed:10949023).

Cellular Location
[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. Note=The transmembrane domain is anchored in sarcoplasmic reticulum membrane, while the N-terminal part associates with the plasma membrane (PubMed:10949023). In heart cells, it predominantly associates along Z lines within myocytes (PubMed:10949023). In skeletal muscle, it is specifically localized at the junction of A and I bands (PubMed:10949023)

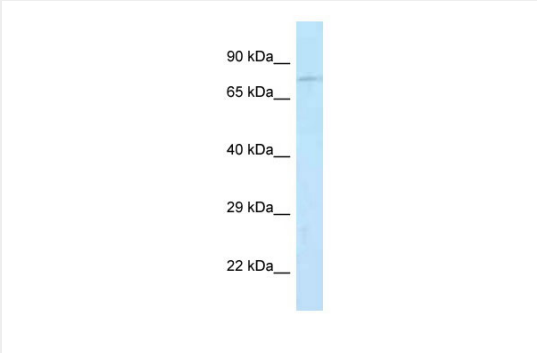
Tissue Location
Abundantly expressed in skeletal muscle and heart (PubMed:10949023). Weak expression in stomach and lung (PubMed:10949023).

Jph2 antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Jph2 antibody - N-terminal region - Images



WB Suggested Anti-Jph2 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Pancreas

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Jph2 antibody - N-terminal region - References

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