

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](http://www.uniprot.org/citations/10949023), PubMed: [19095005](http://www.uniprot.org/citations/19095005), PubMed: [21339484](http://www.uniprot.org/citations/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

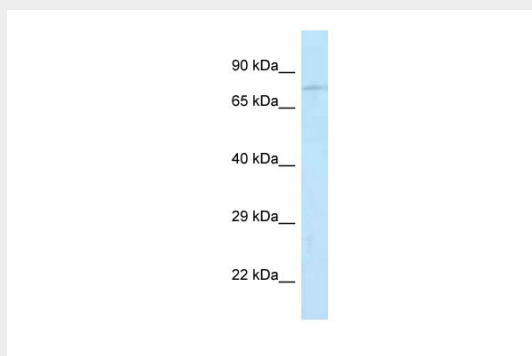
Abundantly expressed in skeletal muscle and heart (PubMed:10949023). Weak expression in stomach and lung (PubMed:10949023).

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 Cytometry](#)
- [Cell Culture](#)

Jph2 antibody - N-terminal region - Images



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

Jph2 antibody - N-terminal region - References

Takeshima H.,et al.Mol. Cell 6:11-22(2000).
Carninci P.,et al.Science 309:1559-1563(2005).
Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).
Yamazaki D.,et al.Pharmacol. Ther. 121:265-272(2009).
van Oort R.J.,et al.Circulation 123:979-988(2011).