

JPH1 Polyclonal Antibody

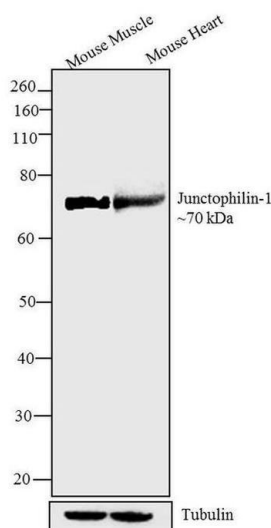
Product Details	
Size	100 µg
Species Reactivity	Mouse, Rat
Published Species	Rabbit, Rat, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide derived from the C-terminal region of the mouse junctophilin-1 (JP-1, junctophilin type 1, JPH1) protein, which differs from rat by one non-conservative amino acid replacement
Form	Liquid
Concentration	0.25 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533470

Applications	Tested Dilution	Publications
Western Blot (WB)	2-3 µg/mL	7 Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:50	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	-	2 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Product Images For JPH1 Polyclonal Antibody

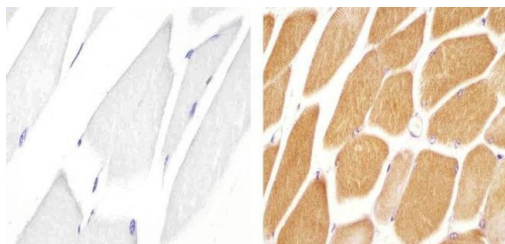
JPH1 Antibody (40-5100) in WB

Western blot analysis was performed on tissue extracts (30 µg lysate) of Mouse Muscle (Lane 1), and Mouse Heart (lane 2). The blots were probed with Anti-Junctophilin-1 Rabbit Polyclonal Antibody (Product # 40-5100, 2 µg/mL) and detected by chemiluminescence Goat Anti-Rabbit IgG Secondary Antibody, HRP conjugate (Product # G-21234, 1:5000 dilution). A 70 kDa band corresponding to Junctophilin-1 was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0301BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane by iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



JPH1 Antibody (40-5100) in IHC (P)

Immunohistochemistry analysis of Junctophilin-1 showing staining in the cytoplasm of paraffin-embedded mouse skeletal muscle tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a Anti- Junctophilin-1 Polyclonal Antibody (Product # 40-5100) diluted in 3% BSA-PBS at a dilution of 1:50 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



JPH1 Antibody (40-5100) in IHC

Immunofluorescent staining of mouse hippocampal dentate gyrus using Junctophilin-1 (C-term) Polyclonal Antibody, Rabbit (Product # 40-5100). Image courtesy of James I. Nagy, PhD, University of Manitoba, Canada



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Western Blot (7)

Physiological reports	Year 2018
I-arginine ingestion inhibits eccentric contraction-induced proteolysis and force deficit via S-nitrosylation of calpain.	Species Rat
"Published figure using JPH1 polyclonal antibody (Product # 40-5100) in Western Blot"	Dilution 1:1,000
Authors: Kanzaki K,Watanabe D,Aibara C,Kawakami Y,Yamada T,Takahashi Y,Wada M	
Journal of applied physiology (Bethesda, Md. : 1985)	Year 2017
Role of calpain in eccentric contraction-induced proteolysis of Ca ²⁺ -regulatory proteins and force depression in rat fast-twitch skeletal muscle.	Species Rat
"40-5100 was used in Western Blotting to study the in vivo effects of eccentric contraction on calpain-dependent proteolysis of Ca ²⁺ regulatory proteins and force production in fast twitch skeletal muscles."	Dilution 1:500
Authors: Kanzaki K,Watanabe D,Kuratani M,Yamada T,Matsunaga S,Wada M	

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Immunohistochemistry (3)

International journal of nanomedicine	Year 2016
Evaluation of adipose-derived stem cells for tissue-engineered muscle repair construct-mediated repair of a murine model of volumetric muscle loss injury.	Species Human
"Published figure using JPH1 polyclonal antibody (Product # 40-5100) in Immunohistochemistry"	
Authors: Kesireddy V	
Journal of the Royal Society, Interface	Year 2014
Observation of the molecular organization of calcium release sites in fast- and slow-twitch skeletal muscle with nanoscale imaging.	
"Published figure using JPH1 polyclonal antibody (Product # 40-5100) in Immunofluorescence"	
Authors: Jayasinghe ID,Munro M,Baddeley D,Launikonis BS,Soeller C	

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More applications with references on thermofisher.com

- IHC (P) (1)
- ICC/IF (2)
- Misc (1)

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