

## Major Resources Table

In order to allow validation and replication of experiments, all essential research materials listed in the Methods should be included in the Major Resources Table below. Authors are encouraged to use public repositories for protocols, data, code, and other materials and provide persistent identifiers and/or links to repositories when available. Authors may add or delete rows as needed.

### Animals (in vivo studies)

Species	Vendor or Source	Background Strain	Sex	Persistent ID / URL
WT mouse	Jackson Laboratory	C57BL/6J	M/F	<a href="https://www.jax.org/strain/000664">https://www.jax.org/strain/000664</a>
NOX2 <sup>-/-</sup>	Jackson Laboratory	C57BL/6J	M	<a href="https://www.jax.org/strain/002365">https://www.jax.org/strain/002365</a>

### Genetically Modified Animals

	Species	Vendor or Source	Background Strain	Other Information	Persistent ID / URL
Parent - Male	CaMKII $\delta$ S280A KI	J Chen Lab, UCSD	C57BL/6J		Publication cited in paper
Parent - Female	CaMKII $\delta$ S280A KI	J Chen Lab, UCSD	C57BL/6J		Publication cited in paper
Parent - Male	CaMKII $\delta$ MM281/2VV KI	ME Anderson Lab, JHMI	C57BL/6J		Publication cited in paper
Parent - Female	CaMKII $\delta$ MM281/2VV KI	ME Anderson Lab, JHMI	C57BL/6J		Publication cited in paper
Parent - Male	CaMKII $\delta$ cardiac-specific KO	JH Brown Lab, UCSD	Black Swiss	It has been crossbred into C57B/6J for more than 10 generations	Publication cited in paper
Parent - Female	CaMKII $\delta$ cardiac-specific KO	JH Brown Lab, UCSD	Black Swiss	It has been crossbred into C57B/6J for more than 10 generations	Publication cited in paper
Parent - Male	CaMKII $\delta$ global KO	JH Brown Lab, UCSD	C57BL/6J		Publication cited in paper
Parent - Female	CaMKII $\delta$ global KO	JH Brown Lab, UCSD	C57BL/6J		Publication cited in paper

### Antibodies

Target antigen	Vendor or Source	Catalog #	Working concentration	Lot # (preferred but not required)	Persistent ID / URL
CaMKII $\delta$	custom, ZYMED Inc, San Francisco, CA	N/A	WB, 1:15,000		Huke S, Bers DM. Temporal dissociation of frequency-dependent acceleration of relaxation and protein phosphorylation by CaMKII. <i>J Mol Cell Cardiol.</i> 2007;42(3):590-9. doi: 10.1016/j.yjmcc.2006.12.007 <a href="https://www.jmcc-online.com/article/S0022-2828(06)01075-3/fulltext">https://www.jmcc-online.com/article/S0022-2828(06)01075-3/fulltext</a>
CaMKII $\delta$	Badrilla	A010-56AP	IP, 1:10		<a href="https://badrilla.com/camkii-delta-isoforms-2-3-4-9-11-11a-pab.html">https://badrilla.com/camkii-delta-isoforms-2-3-4-9-11-11a-pab.html</a>
O-GlcNAc	Millipore	MABS1254	WB, 1: 10,000		<a href="https://www.emdmillipore.com/US/en/product/Anti-O-GlcNAc-Antibody-clone-CTD110.6,MM_NF-MABS1254">https://www.emdmillipore.com/US/en/product/Anti-O-GlcNAc-Antibody-clone-CTD110.6,MM_NF-MABS1254</a>
O-GlcNAc	Abcam	ab2739	WB, 1:1,000		<a href="https://www.abcam.com/o-linked-n-acetylglucosamine-antibody-rl2-ab2739.html">https://www.abcam.com/o-linked-n-acetylglucosamine-antibody-rl2-ab2739.html</a>

DOI [to be added]

oxidized-CaMKII (Met281/282)	Millipore	07-1387	WB, 1:2,500		<a href="https://www.emdmillipore.com/US/en/product/Anti-oxidized-CaM-Kinase-II-Met281-282-Antibody,MM_NF-07-1387">https://www.emdmillipore.com/US/en/product/Anti-oxidized-CaM-Kinase-II-Met281-282-Antibody,MM_NF-07-1387</a>
phospho-CaMKII (Thr286)	Thermo Fisher Scientific	MA1-047	WB, 1:1,000		<a href="https://www.thermofisher.com/antibody/product/Phospho-CaMKII-alpha-Thr286-Antibody-clone-22B1-Monoclonal/MA1-047">https://www.thermofisher.com/antibody/product/Phospho-CaMKII-alpha-Thr286-Antibody-clone-22B1-Monoclonal/MA1-047</a>
PLB	Badrilla	A010-14	WB, 1:5,000		<a href="https://badrilla.com/phospholamban-pln-plb-mab-clone-a1.html">https://badrilla.com/phospholamban-pln-plb-mab-clone-a1.html</a>
PLB	Thermo Fisher Scientific	PA5-82945	WB, 1:1,000		<a href="https://www.thermofisher.com/antibody/product/Phospholamban-Antibody-Polyclonal/PA5-82945">https://www.thermofisher.com/antibody/product/Phospholamban-Antibody-Polyclonal/PA5-82945</a>
PLB pS16	Badrilla	A010-12AP	WB, 1:5,000		<a href="https://badrilla.com/phospholamban-pln-plb-pser16-pab.html">https://badrilla.com/phospholamban-pln-plb-pser16-pab.html</a>
PLB pT17	Badrilla	A010-13	WB, 1:5,000		<a href="https://badrilla.com/phospholamban-pln-plb-pthr17-pab-serum.html">https://badrilla.com/phospholamban-pln-plb-pthr17-pab-serum.html</a>
RyR	Thermo Fisher Scientific	MA3-916	WB, 1:1,000		<a href="https://www.thermofisher.com/antibody/product/Ryanodine-Receptor-Antibody-clone-C3-33-Monoclonal/MA3-916">https://www.thermofisher.com/antibody/product/Ryanodine-Receptor-Antibody-clone-C3-33-Monoclonal/MA3-916</a>
RyR pS2814	custom	N/A	WB, 1:1,000		Gift from Dr. Xander H.T. Wehrens, Baylor College of Medicine, Houston, TX, USA <a href="https://www.ahajournals.org/doi/10.1161/CIRCULATIONAHA.110.982298">https://www.ahajournals.org/doi/10.1161/CIRCULATIONAHA.110.982298</a>
GAPDH	GeneTex	GTX627408	WB, 1:5,000		<a href="https://www.genetex.com/Product/Detail/GAPDH-antibody-GT239/GTX627408">https://www.genetex.com/Product/Detail/GAPDH-antibody-GT239/GTX627408</a>
GAPDH	Millipore	AB2302	WB, 1:5,000		<a href="https://www.emdmillipore.com/US/en/product/Anti-GAPDH-Antibody,MM_NF-AB2302">https://www.emdmillipore.com/US/en/product/Anti-GAPDH-Antibody,MM_NF-AB2302</a>
goat anti-mouse IgG (H+L) secondary antibody, HRP	Thermo Fisher Scientific	31430	WB, 1:5,000		<a href="https://www.thermofisher.com/antibody/product/Goat-anti-Mouse-IgG-H-L-Secondary-Antibody-Polyclonal/31430">https://www.thermofisher.com/antibody/product/Goat-anti-Mouse-IgG-H-L-Secondary-Antibody-Polyclonal/31430</a>
goat anti-rabbit IgG (H+L) secondary antibody, HRP	Thermo Fisher Scientific	31460	WB, 1:5,000		<a href="https://www.thermofisher.com/antibody/product/Goat-anti-Rabbit-IgG-H-L-Secondary-Antibody-Polyclonal/31460">https://www.thermofisher.com/antibody/product/Goat-anti-Rabbit-IgG-H-L-Secondary-Antibody-Polyclonal/31460</a>
goat anti-chicken IgY (H+L) secondary antibody, Alexa Fluor 488	Thermo Fisher Scientific	A-11039	WB, 1:5,000		<a href="https://www.thermofisher.com/antibody/product/Goat-anti-Chicken-IgY-H-L-Secondary-Antibody-Polyclonal/A-11039">https://www.thermofisher.com/antibody/product/Goat-anti-Chicken-IgY-H-L-Secondary-Antibody-Polyclonal/A-11039</a>
goat anti-mouse IgG secondary antibody	LI-COR	IRDye800CW	WB, 1:10,000		<a href="https://www.licor.com/bio/reagents/irdye-800cw-goat-anti-mouse-igg-secondary-antibody">https://www.licor.com/bio/reagents/irdye-800cw-goat-anti-mouse-igg-secondary-antibody</a>
goat anti-rabbit IgG secondary antibody	LI-COR	IRDye680RD	WB, 1:10,000		<a href="https://www.licor.com/bio/reagents/irdye-680rd-goat-anti-rabbit-igg-secondary-antibody">https://www.licor.com/bio/reagents/irdye-680rd-goat-anti-rabbit-igg-secondary-antibody</a>
goat anti-	LI-COR	IRDye800	WB, 1:10,000		<a href="https://www.licor.com/bio/reagents/irdye-">https://www.licor.com/bio/reagents/irdye-</a>

DOI [to be added]

rabbit IgG secondary antibody		CW			<a href="#">800cw-goat-anti-rabbit-igg-secondary-antibody</a>
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### DNA/cDNA Clones

Clone Name	Sequence	Source / Repository	Persistent ID / URL
GFP-tagged CaMKII $\delta$ C WT pShuttle vector	gctcatttttaaccaataggccgaaatcggcaaaatcccttataaatcaaaagaatagaccgagatagggtt gagtgtgtccagtttggaaacaagagtcactattaaagaacgtggactccaacgtcaaagggcgaaaaacc gtctatcagggcgatggccactacgtgaacatcacctaatcaagtttttggggtcgagggtgccgtaaagc actaaatcggaaaccctaaaggagccccgatttagagcttgacggggaaagccggcgaacgtggcgagaa aggaagggaaagaaagcgaaggagcggcgctagggcgctggcaagtgtagcgggtcacgctgcgtaac caccacaccgccgcttaatgcgctcagggcgctcattcgccattcaggatcgaattaattcttaa ttaacatcatcaataatataccttatttggattgaagccaatgataatgagggggtggagtttggcagctgg cgcggggctgggaacggggcggtgacgtagtagtggtggcgaagtgtgatgttcaagtgtggcgaaca catgtaagcgacggatgtggcaaaagtacgttttgggtgctgcccgtgtacacaggaagtacaatttccg gctgttttagggcgatgtttagtaaatggggcgaaccgagtaagattggccatttccggggaaactga ataagaggaagtgaatctgaataatttggcttactcatagcgcgtaataactgtaataagtaatacattacggg gtcattagttcatagccatataatggagttccgcttacataactacggtaaatggcccctggctgaccgcc caacgaccccccccattgacgtcaataatgacgtatgttccatagtaacccaatagggactttcattgac gtcaatgggtggagatttacggtaaactgccacttggcagtagatcaagtgtatcatatgccaagtacgcc cctattgacgtcaatgacggtaaatggcccctggcattatgccagtagatgacctatgggactttcctact tggcagtagatctactgattagctatgctattaccatggtagcgggtttggcagtagatcaatggcggtgga tagcgggtttagctcacggggattccaagtctcacccttagcgtcaatgggagttgtttggcaccaaaat caacgggactttcaaaatgtcgtaaactccgcccattgacgcaaatggcggttagcgtgtagcgggtggg aggtctataagcagagctggttttagtaaccgtcagatccgctagagatcgtctaaagctgctgcagga attcgctgtcgcctcgcactgtccagaccccccatggcttccgggagctccttatccgtacgacgtccctga ctacgccggacctggagctcagctgaccaccctgcacccggttaccgacgagtagatcagctcttcgaggag ctcggaaaggggacttctcagtggtgagaagatgcatgaaatccctactggacaagagtagctgcaaaa attatcaacacaaaagcttctgctagggatcatcagaaactggaagggaagctagaatctgcctctctt gaagcaccatattgtgagacttcatgacagcatatccgaagagggttccattacttggtgtttgacttagt tactggtggcgaactcttgaagacatagtggaagagaatattacagtggagctgatgccagtcattgtatac aacagattctagagagtgaaatcattgtcacctaaatggcatagttcacaggacctaagcctgagaatttg cttttagctagcaaatcaaaaggagcagctgtgaaactggcagacttccgcttagccatagaagtcaaggcg accagcaggcgtggtttggtttgctggcacacctgggtatcttctcagaagctcactgtaaagatcctatg gaaaaccagtggacatgtgggcatgtggcgtcatcctctacatcttctggtgggataccacccttctgggat gaagatcagcatagactgtatcagcagatcaaggctggagcgtacgatttccatcaccagaatgggacaca gtgacacctgaagcacaagacctcatcaaaaatgctgacctcaacctgcaaacgcatcacagcctctg aggcctgaaacaccatggatctgtcaacgttctactgttgcctcatgatgcagggcaggagactgtagac tgcttgaagaaatattatgctcgacggaattgaagggtccatcttgacaactatgctggctacgagaaat ttcagcagcaagagtttgaagaaaccggatggggtaaaggagtcaactgagagctcaaataccaccatt gaggatgaagcgtgaaagcagcaagcaagagatcatcaaaactgactgagcagctgattgaagctatcaa caatggggactttaggcttacacgaaaatctgtgatccaggcctactgcttgaaccgaagcattggggca acttagtggaggatggactttcacagattctattgaaaatgcttgcacaaaatcaataaaccaatccac actatcatcctgaacctcactgacacctgtaggggatgatgcagcctgcatagcatacattcggtcacaca gtacatggatggaatggaatgcaaaagacaatgacgtcagaagagactcagagtggcaccgctgatgg gaagtggcagaatattcatttcatcgttccgggtcccaacagtcacctcaagccacctgtattcacaatg ggaaagaaaacttctcaggaggcaccttctgtgcaaaaacatcgaaaaccattcacatttgggtcagcgg accgcccggggatccaccggtcgcaccatggtgagcaagggcaggagctgttaccgggggtggtgcc catcctgctgagctggagcgcagtaaacggccaagttcagcgtgtccggcagggcgagggcgatgc cacctacggcaagctgacctgaagttcatctgaccaccggcaagctgcccgtgcccctggcccacctcgtga ccacctgacctacggcgtgagtgctttagcggctaccccgaccatgaagcagcagcacttctcaagctc	CaMKII constructs were based off the rat CaMKII $\delta$ sequence. GFP-tagged probe was generated using the AdEasy system (Addgene, Watertown, MA, USA)	Wood BM, Simon M, Galice S, Alim CC, Ferrero M, Pinna NN, Bers DM, Bossuyt J. Cardiac CaMKII activation promotes rapid translocation to its extra-dyadic targets. <i>J Mol Cell Cardiol.</i> 2018;125:18-28. doi: 10.1016/j.jmcc.2018.10.010. <a href="https://www.jmcc-online.com/article/S0022-2828(18)31023-X/fulltext">https://www.jmcc-online.com/article/S0022-2828(18)31023-X/fulltext</a>

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### Cultured Cells

Name	Vendor or Source	Sex (F, M, or unknown)	Persistent ID / URL
Adult ventricular cardiomyocytes enzymatically isolated from New Zealand White rabbits	Charles River Laboratories (Wilmington, MA, USA)	M	Wood BM, Simon M, Galice S, Alim CC, Ferrero M, Pinna NN, Bers DM, Bossuyt J. Cardiac CaMKII activation promotes rapid translocation to its extra-dyadic targets. <i>J Mol Cell Cardiol.</i> 2018;125:18-28. doi: 10.1016/j.yjmcc.2018.10.010. <a href="https://www.jmcc-online.com/article/S0022-">https://www.jmcc-online.com/article/S0022-</a>

			<a href="#">2828(18)31023-X/fulltext</a>
Human embryonic kidney 293 (HEK293) cells	Gift from Dr. Peter P. Jones, Department of Physiology, University of Otago, NZ	F	

### RT-qPCR oligonucleotide primer sequences

Description	Source / Repository	Persistent ID / URL
CaMKII $\delta$ ( <i>CAMK2D</i> ) F: gtgacacctgaagccaaaga R: catcatggaggcaacagtagag	Eurofins Genomics, Louisville, KY, USA	
CaMKII $\gamma$ ( <i>CAMK2G</i> ) F: aagctggagcctacgatttc R: gcgctttgcagggttatg	Eurofins Genomics, Louisville, KY, USA	
$\beta$ -myosin heavy chain ( <i>MYH7</i> ) F: agatggctggtttggatgag R: ttggccttggtcagagtattg	Eurofins Genomics, Louisville, KY, USA	
Natriuretic peptide precursor A ( <i>NPPA</i> ) F: caggccatattggagcaaatc R: gggcatgacctcatcttctac	Eurofins Genomics, Louisville, KY, USA	
Glyceraldehyde 3-phosphate dehydrogenase ( <i>GAPDH</i> ) F: aacagcaactcccactcttc R: cctgttgctgtagcgtatt	Eurofins Genomics, Louisville, KY, USA	