

## 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
Guinea pig	Hilltop	Hartley	Male	<a href="http://www.hilltoplabs.com/public/hartley.html">http://www.hilltoplabs.com/public/hartley.html</a>

### Antibodies

Target antigen	Vendor or Source	Catalog #	Working concentration	Persistent ID / URL
PDE1A	Santa Cruz Biotechnology	Sc-50480	1:1000	
PDE1C	Abcam	Ab14602	1:5000	
GAPDH	Cell Signaling	5174	1:2000	
Phospho-Ser <sup>23/24</sup> Tnl	Cell Signaling	4004	1:1000	<a href="https://www.cellsignal.com/products/primary-antibodies/troponin-i-antibody/4004">https://www.cellsignal.com/products/primary-antibodies/troponin-i-antibody/4004</a>
total Tnl	Cell Signaling	4002	1:1000	<a href="https://www.cellsignal.com/products/primary-antibodies/troponin-i-antibody/4002">https://www.cellsignal.com/products/primary-antibodies/troponin-i-antibody/4002</a>
phospho-Ser <sup>273</sup> MyBPC	Gift from Dr. Sakthivel Sadayappan	n/a	1:2000	n/a
phospho-Ser <sup>282</sup> MyBPC	Gift from Dr. Sakthivel Sadayappan	n/a	1:4000	n/a
phospho-Ser <sup>302</sup> MyBPC	Gift from Dr. Sakthivel Sadayappan	n/a	1:4000	n/a
total MyBPC	Gift from Dr. Sakthivel Sadayappan	n/a	1:2000	n/a
phospho-Ser <sup>16</sup> PLN	Badrilla	010-12	1:2000	<a href="https://badrilla.com/media/datasheets/A010-12AP.pdf">https://badrilla.com/media/datasheets/A010-12AP.pdf</a>
total PLN	ThermoFisher Scientific	MA3-922	1:3000	<a href="https://www.thermofisher.com/antibody/product/Phospholamban-Antibody-clone-2D12-Monoclonal/MA3-922">https://www.thermofisher.com/antibody/product/Phospholamban-Antibody-clone-2D12-Monoclonal/MA3-922</a>

### Data & Code Availability

Description	Source / Repository	Persistent ID / URL
Ca <sup>2+</sup> transient fitting	MatLab	<a href="https://github.com/vpjani/ca_transients.git">https://github.com/vpjani/ca_transients.git</a>

### Other

Description	Source / Repository	Persistent ID / URL
Blocking buffer – 0.1% KPL	SeraCare	

DOI [to be added]