

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	http://www.hilltoplabs.com/public/hartley.html

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 ^{23/24} Tnl	Cell Signaling	4004	1:1000	https://www.cellsignal.com/products/primary-antibodies/troponin-i-antibody/4004
total Tnl	Cell Signaling	4002	1:1000	https://www.cellsignal.com/products/primary-antibodies/troponin-i-antibody/4002
phospho-Ser ²⁷³ MyBPC	Gift from Dr. Sakthivel Sadayappan	n/a	1:2000	n/a
phospho-Ser ²⁸² MyBPC	Gift from Dr. Sakthivel Sadayappan	n/a	1:4000	n/a
phospho-Ser ³⁰² 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 ¹⁶ PLN	Badrilla	010-12	1:2000	https://badrilla.com/media/datasheets/A010-12AP.pdf
total PLN	ThermoFisher Scientific	MA3-922	1:3000	https://www.thermofisher.com/antibody/product/Phospholamban-Antibody-clone-2D12-Monoclonal/MA3-922

Data & Code Availability

Description	Source / Repository	Persistent ID / URL
Ca ²⁺ transient fitting	MatLab	https://github.com/vpjani/ca_transients.git

Other

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