

Major Resources Table

Animals (in vivo studies)

Species	Vendor or Source	Background Strain	Sex	Persistent ID / URL
Mice	Charles River Laboratories	C57BL/6N strain 02	both	

Antibodies

Target antigen	Vendor or Source	Catalog #	Working concentration	Lot # (preferred but not required)	Persistent ID / URL
Mitotracker Deep Red FM	Invitrogen	#M22426	1 μ mol/L		
Polyclonal rabbit NCLX	Biorbyt	#orb317904	1:50	Lot: BS9098	
rabbit polyclonal NaV1.5	Sigma	#S0819	1:50		
mouse monoclonal α -actinin	Sigma	#A7811	1:200		
Alexa Fluor 568 goat anti-rabbit	Invitrogen	#A11011	1:300 Confocal/ 1:10000 SRes	Lot: 1778925	
APEX™ Alexa Fluor 568 Antibody Labeling Kit	Invitrogen	#A10494			
Alexa Fluor goat anti-rabbit 488	Invitrogen	#A11008	1:10000	Lot: 2179202	
ProLong Gold antifade reagent	Invitrogen	P36930		Lot: 2204416	

Cultured Cells

Name	Vendor or Source	Sex (F, M, or unknown)	Persistent ID / URL
HL-1 cells	Claycomb lab	N/A	
hiPSC line 19c3	derived from a healthy male (Burridge's lab)		

Data & Code Availability

Description	Source / Repository	Persistent ID / URL
cluster analysis	https://github.com/FenyoLab/Cluster_Analysis	
Randomized images	https://github.com/FenyoLab/IFSimPy	

Other

Description	Source / Repository	Persistent ID / URL
collagenase type II	Worthington, Lakewood, NJ, USA	
Rhod-2 AM	Thermo Fisher	
TTX	Tocris	
FCCP	Tocris	
Oligomycin A	Sigma	
CGP-37157	Tocris	

DOI [to be added]

MitoSOX Red	Invitrogen	
RPMI 1640	Corning, 10-040-CM	
glycogen synthase kinase 3- β inhibitor CHIR99021	LC Labs, C-6556	
RBA-C59	GenDEPOT, A0100	
Wnt-C59	Biorbyt, orb181132	