

## 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
CASK_flox MHC_Cre	Own (based on CASKtm1sud of the Südhof Lab)	C57BLJ	m	not available yet

### Genetically Modified Animals

	Species	Vendor or Source	Background Strain	Other Information	Persistent ID / URL
<b>Parent - Male</b>	CASK_flox MHC_Cre	Own lab	C57BLJ	based on CASKtm1sud of the Südhof Lab	not available yet
<b>Parent - Female</b>	CASK_flox MHC_Cre	Own lab	C57BLJ	based on CASKtm1sud of the Südhof Lab	not available yet

### Antibodies

Target antigen	Vendor or Source	Catalog #	Working concentration	Lot # (preferred but not required)	Persistent ID / URL
anti-CASK	StressMarq & Abcam	S56A-50 (discontinued) & AB11343 (discontinued)	1:2000 (Western)	n/a	n/a
anti-NaV1.5	Alomone	ASC-013		n/a	n/a
anti-CaMKII	Don Bers' lab	n/a	1:1200	n/a	n/a
anti-phospho-threonin-286-CaMKII	Thermo Fisher	MA1-047	1:1000	n/a	n/a
anti-phospho-threonin305-CaMKII	Antibodies online	n/a discontinued	1:1000	n/a	n/a
anti-phospho-threonin17-PLN	Badrilla	A010-13AP	1:10000	n/a	n/a
monoclonal anti-PLN	Milipore	n/a	1:10000	n/a	n/a
anti-RyR2	Sigma	HPA020028	1:10000	n/a	n/a
anti-phospho-serin2814-RyR	Badrilla	A010-31AP	1:10000	n/a	n/a
anti-SERCA	Thermo Scientific	MA3-919	1:20000	n/a	n/a
anti-GAPDH	Biotrend	BT46-9995-55	1:50000	n/a	n/a
HRP-conjugated donkey anti-rabbit and sheep anti-mouse IgG	GE Healthcare	NA934 & NA931	1:10000	n/a	n/a

DOI [to be added]

Immune serum directed against oxizided M281/M282	Mark Anderson's lab	n/a	1:15000	n/a	n/a
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**DNA/cDNA Clones**

Clone Name	Sequence	Source / Repository	Persistent ID / URL
not applicable			

**Cultured Cells**

Name	Vendor or Source	Sex (F, M, or unknown)	Persistent ID / URL
not applicable			

**Data & Code Availability**

Description	Source / Repository	Persistent ID / URL
not applicable		

**Other**

Description	Source / Repository	Persistent ID / URL
not applicable		