

## Major Resources Table

### Genetically Modified Animals

	Species	Vendor or Source	Background Strain	Other Information	Persistent ID / URL
<b>Parent - Male</b>	Mouse, Tg-Nampt	Lab resource	FVB		doi: 10.1161/CIRCRESAHA.109.203703
<b>Parent - Female</b>	Mouse, Tg-Nampt	Lab resource	FVB		doi: 10.1161/CIRCRESAHA.109.203703
<b>Parent - Male</b>	Mouse, Nampt+/-	Kyoto University, Kyoto, Japan	C57BL/6	Provided by Dr. Shinya Yamanaka	doi: 10.1152/ajpheart.00222
<b>Parent - Female</b>	Mouse, Nampt+/-	Kyoto University, Kyoto, Japan	C57BL/6	Provided by Dr. Shinya Yamanaka	doi: 10.1152/ajpheart.00222

### Antibodies

Target antigen	Vendor or Source	Catalog #	Working concentration	Persistent ID / URL
Nampt (Visfatin)	Bethyl	A700-058	1:1000-1:5000	<a href="https://www.bethyl.com/product/A700-058">https://www.bethyl.com/product/A700-058</a>
Nampt (Visfatin)	Abcam	Ab58640	1:1000-1:5000	It has been discontinued.
NADK	Cell Signaling Technology (CST)	55948	1:1000-1:5000	<a href="https://www.cellsignal.com/products/primary-antibodies/nadk-antibody/55948">https://www.cellsignal.com/products/primary-antibodies/nadk-antibody/55948</a>
Phospho- IKK	CST	2697	1:1000-1:5000	<a href="https://www.cellsignal.com/products/primary-antibodies/phospho-ikka-b-ser176-180-16a6-rabbit-mab/2697">https://www.cellsignal.com/products/primary-antibodies/phospho-ikka-b-ser176-180-16a6-rabbit-mab/2697</a>
IKK $\alpha$	CST	2682	1:1000-1:5000	<a href="https://www.cellsignal.com/products/primary-antibodies/ikka-antibody/2682">https://www.cellsignal.com/products/primary-antibodies/ikka-antibody/2682</a>
IKK $\beta$	CST	2678	1:1000-1:5000	<a href="https://www.cellsignal.com/products/primary-antibodies/ikkb-l570-antibody/2678">https://www.cellsignal.com/products/primary-antibodies/ikkb-l570-antibody/2678</a>
Phospho- mTOR (Ser2481)	CST	2974	1:1000-1:5000	<a href="https://www.cellsignal.com/products/primary-antibodies/phospho-mtor-ser2481-antibody/2974">https://www.cellsignal.com/products/primary-antibodies/phospho-mtor-ser2481-antibody/2974</a>
mTOR	CST	2972	1:1000-1:5000	<a href="https://www.cellsignal.com/products/primary-antibodies/mtor-antibody/2972">https://www.cellsignal.com/products/primary-antibodies/mtor-antibody/2972</a>
Phospho- p70 S6 Kinase (Thr389)	CST	9205	1:1000-1:5000	<a href="https://www.cellsignal.com/products/primary-antibodies/phospho-p70-s6-kinase-thr389-antibody/9205">https://www.cellsignal.com/products/primary-antibodies/phospho-p70-s6-kinase-thr389-antibody/9205</a>
p70 S6 Kinase	CST	9202	1:1000-1:5000	<a href="https://www.cellsignal.com/products/primary-antibodies/p70-s6-kinase-antibody/9202">https://www.cellsignal.com/products/primary-antibodies/p70-s6-kinase-antibody/9202</a>
Phospho- AMPK $\alpha$ (Thr172)	CST	2535	1:1000-1:5000	<a href="https://www.cellsignal.com/products/primary-antibodies/phospho-ampka-thr172-40h9-rabbit-mab/2535">https://www.cellsignal.com/products/primary-antibodies/phospho-ampka-thr172-40h9-rabbit-mab/2535</a>
AMPK $\alpha$ 2	CST	2757	1:1000-1:5000	<a href="https://www.cellsignal.com/products/primary-antibodies/ampka2-antibody/2757">https://www.cellsignal.com/products/primary-antibodies/ampka2-antibody/2757</a>
Phospho-	CST	9251	1:1000-	<a href="https://www.cellsignal.com/products/primary-antibodies/phospho-">https://www.cellsignal.com/products/primary-antibodies/phospho-</a>

DOI [to be added]

SAPK/JNK (Thr183/Tyr185)			1:5000	sapk-jnk-thr183-tyr185-antibody/9251
SAPK/JNK	CST	9252	1:1000-1:5000	<a href="https://www.cellsignal.com/products/primary-antibodies/sapk-jnk-antibody/9252">https://www.cellsignal.com/products/primary-antibodies/sapk-jnk-antibody/9252</a>
Phospho-TAK1 (Thr184/187)	CST	4531	1:1000-1:5000	<a href="https://www.cellsignal.com/products/primary-antibodies/phospho-tak1-thr184-187-antibody/4531">https://www.cellsignal.com/products/primary-antibodies/phospho-tak1-thr184-187-antibody/4531</a>
TAK1	CST	5206	1:1000-1:5000	<a href="https://www.cellsignal.com/products/primary-antibodies/tak1-d94d7-rabbit-mab/5206">https://www.cellsignal.com/products/primary-antibodies/tak1-d94d7-rabbit-mab/5206</a>
Glucose-6-Phosphate Dehydrogenase	CST	8866	1:1000-1:5000	<a href="https://www.cellsignal.com/products/primary-antibodies/glucose-6-phosphate-dehydrogenase-antibody/8866">https://www.cellsignal.com/products/primary-antibodies/glucose-6-phosphate-dehydrogenase-antibody/8866</a>
GAPDH	CST	2118S	1:5000	<a href="https://www.cellsignal.com/products/primary-antibodies/gapdh-14c10-rabbit-mab/2118">https://www.cellsignal.com/products/primary-antibodies/gapdh-14c10-rabbit-mab/2118</a>
Thioredoxin 1	CST	2429	1:1000-1:5000	<a href="https://www.cellsignal.com/products/primary-antibodies/thioredoxin-1-c63c6-rabbit-mab/2429">https://www.cellsignal.com/products/primary-antibodies/thioredoxin-1-c63c6-rabbit-mab/2429</a>
TGFβ1	Abcam	ab92486	1:1000-1:5000	<a href="https://www.abcam.com/tgf-beta-1-antibody-ab92486.html">https://www.abcam.com/tgf-beta-1-antibody-ab92486.html</a>
Collagen 3a1	Novus Biologicals	NB600-594	1:1000-1:5000	<a href="https://www.novusbio.com/products/collagen-iii-alpha-1-col3a1-antibody_nb600-594">https://www.novusbio.com/products/collagen-iii-alpha-1-col3a1-antibody_nb600-594</a>
TLR4	Novus Biologicals	NB100-56579	1:1000-1:5000	<a href="https://www.novusbio.com/products/tlr4-antibody_nb100-56579">https://www.novusbio.com/products/tlr4-antibody_nb100-56579</a>
Tubulin	Sigma	T6199	1:5000-1:10000	<a href="https://www.sigmaaldrich.com/catalog/product/sigma/t6199?lang=en&amp;region=US&amp;cm_sp=Insite-_-caSrpResults_srpRecs_srpModel_t6199-_-srpRecs3-1">https://www.sigmaaldrich.com/catalog/product/sigma/t6199?lang=en&amp;region=US&amp;cm_sp=Insite-_-caSrpResults_srpRecs_srpModel_t6199-_-srpRecs3-1</a>
Peroxiredoxin 1/PAG	Abcam	ab41906	1:1000-1:5000	<a href="https://www.abcam.com/peroxiredoxin-1pag-antibody-ab41906.html">https://www.abcam.com/peroxiredoxin-1pag-antibody-ab41906.html</a>
Peroxiredoxin-SO3	Abcam	ab16830	1:1000-1:5000	<a href="https://www.abcam.com/peroxiredoxin-so3-antibody-ab16830.html">https://www.abcam.com/peroxiredoxin-so3-antibody-ab16830.html</a>
MitoProfile (Total OXPHOS Rodent WB antibody cocktail)	Abcam	Ab110413	1:5000-1:10000	<a href="https://www.abcam.com/total-oxphos-rodent-wb-antibody-cocktail-ab110413.html">https://www.abcam.com/total-oxphos-rodent-wb-antibody-cocktail-ab110413.html</a>
Dityrosine	Stress Marq Biosciences	SMC-521D	1:1000-1:5000	<a href="https://www.stressmarq.com/products/antibodies/dityrosine-antibody-smc-521/?v=7516fd43adaa">https://www.stressmarq.com/products/antibodies/dityrosine-antibody-smc-521/?v=7516fd43adaa</a>
HRP-linked anti-rabbit IgG	CST	7074	1:1000-1:5000	<a href="https://www.cellsignal.com/products/secondary-antibodies/anti-rabbit-igg-hrp-linked-antibody/7074">https://www.cellsignal.com/products/secondary-antibodies/anti-rabbit-igg-hrp-linked-antibody/7074</a>
HRP-linked anti-Mouse IgG	CST	7076	1:1000-1:5000	<a href="https://www.cellsignal.com/products/secondary-antibodies/anti-mouse-igg-hrp-linked-antibody/7076">https://www.cellsignal.com/products/secondary-antibodies/anti-mouse-igg-hrp-linked-antibody/7076</a>

### DNA/cDNA Clones

Clone Name	Sequence	Source / Repository	Persistent ID / URL
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DOI [to be added]

Adenovirus – Nampt overexpression vector	Mouse cDNA	own	doi: 10.1161/CIRCRESAHA.109.203703
Adenovirus – sh-Nampt	Targeting Rat Nampt	own	doi: 10.1161/CIRCRESAHA.109.203703
Adenovirus-sh-Trx1	Targeting Rat Trx1	own	doi: 10.1074/jbc.M117.807735
Adenovirus-sh-Sirt1	Targeting Mouse Sirt1	Dr. Abdellatif lab	DOI: 10.1161/CIRCRESAHA.108.193102
Adenovirus-sh-Control		Dr. Abdellatif lab	DOI: 10.1161/CIRCRESAHA.108.193102
Adenovirus-Keima		own	DOI: 10.1161/CIRCRESAHA.116.303356
Adenovirus-GFP-LC3		own	DOI: 10.1161/01.RES.0000261924.76669.36
Rat sh-NADK	Targeting Rat NADK	Qiagen (SI04748191)	<a href="https://geneglobe.qiagen.com/product-groups/flexitube-sirna">https://geneglobe.qiagen.com/product-groups/flexitube-sirna</a>
Rat sh-Sirt3	Targeting Rat Sirt3	Qiagen (SI01584779)	<a href="https://geneglobe.qiagen.com/product-groups/flexitube-sirna">https://geneglobe.qiagen.com/product-groups/flexitube-sirna</a>
Negative Control shRNA		Qiagen (1022076)	<a href="https://www.qiagen.com/us/products/discovery-and-translational-research/functional-and-cell-analysis/rna-silencing/sirna/negative-control-sirna/?clear=true#orderinginformation">https://www.qiagen.com/us/products/discovery-and-translational-research/functional-and-cell-analysis/rna-silencing/sirna/negative-control-sirna/?clear=true#orderinginformation</a>

### Cultured Cells

Name	Vendor or Source	Sex (F, M, or unknown)	Persistent ID / URL
Neonatal rat ventricular myocytes (NRVM) isolation. BR-Wistar rats	Harlan	Both of 1-day-old pups	doi: 10.1038/nm.3322

### Oligomers for genotyping PCR

Description	Source / Repository	Sequence
Tg-Nampt mouse genotyping	Integrated DNA technologies	Forward – 5': GGC ACT CTT AGC AAA CCT CA Reverse – 5': TTC CAT CCT CTT TCG TTA AA
Nampt+/- mouse genotyping	Integrated DNA technologies	A – 5': AGC AAC AAC CAA ACC AAA CCA ACT G B – 5': CGA TTC CAC CGC CGC CTT CTA TGA AA C – 5': TAC GAT GGT CAT CTC CCG ATT GAA