

Major Resources Tables

Animals (in vivo studies)

Species	Vendor or Source	Background Strain	Sex
WT mice	The Jackson Laboratory	C57BL/6J	male
PI3K $\gamma^{-/-}$ mice	Josef M. Penninger	C57BL/6J	male
WT to WT chimeric mice	Investigator generated	C57BL/6J	male
WT to PI3K $\gamma^{-/-}$ chimeric mice	Investigator generated	C57BL/6J	male
PI3K $\gamma^{-/-}$ to WT chimeric mice	Investigator generated	C57BL/6J	male
PI3K $\gamma^{-/-}$ to PI3K $\gamma^{-/-}$ chimeric mice	Investigator generated	C57BL/6J	male

WT, wild type PI3K $\gamma^{-/-}$, PI3K-p110 γ knockout

Animal breeding

	Species	Vendor or Source	Background Strain	Other Information
Parent - Male	PI3K $\gamma^{-/-}$ mice	Josef M. Penninger	C57BL/6J	backcrossed onto a C57BL/6 background for > 10 generations
Parent - Female	PI3K $\gamma^{-/-}$ mice	Josef M. Penninger	C57BL/6J	backcrossed onto a C57BL/6 background for > 10 generations

Reagents

Name	Vendor or Source	Catlog #
Fetal bovine serum (FBS)	Life Technology (Grand Island, USA)	10099-141
DMEM/F12	Life Technology (Grand Island, USA)	C11330500BT
AS605240	Sigma-Aldrich (St. Louis, USA)	A0233
Lipofectamine 3000	Invitrogen(Carlsbad, CA, USA)	P/N100022050

Cell Counting Kit-8 (CCK-8)	Dojindo (Kumamoto, Japan)	CK04
BrdU Labeling and Detection kit	Biovision (California, USA)	K306-200
PI3K activity ELISA kit	Echelon Biosciences (Utah, USA)	K-1000
PrimeScript RT Master Mix kit	Takara (Dalian, China)	RR036A-1
SYBR Premix Ex Taq kit	Takara (Dalian, China)	RR420A
SimpleCHIP ® Plus Sonication Chromatin IP kit	CST (Danvers, USA)	56383
dual-luciferase reporter kit	Promega (Madison, WI)	E2920

Antibodies

Target antigen	Vendor or Source	Catlog #	Working concentration, ug/ml	Lot # (preferred but not required)
PI3K p110 α	CST (Danvers, USA)	4249	0.1 (WB)	
PI3K p110 β	Abcam (Cambridge, UK)	Ab151549	0.2 (WB)	
PI3K p110 γ	Santa Cruz Biotechnology (Santa Cruz, CA, USA)	Sc-7177	1.0 (WB) 4.0 (IHC) 4.0 (IP)	
PI3K p110 δ	CST (Danvers, USA)	34050	0.1 (WB)	
PI3K p101	CST (Danvers, USA)	5569	0.1 (WB)	
Akt (pan)	CST (Danvers, USA)	4685	0.1 (WB)	
p-Akt (Ser473)	CST (Danvers, USA)	4060	0.1 (WB) 2.0 (IHC)	
YAP	CST (Danvers, USA)	14074	0.1 (WB) 2.0 (IHC)	
p-YAP(Ser127)	CST (Danvers, USA)	13008	0.1 (WB) 2.0 (IHC)	
CREB	CST (Danvers, USA)	9197	0.1 (WB) 2.0 (IHC) 4.0 (CHIP)	
p-CREB (Ser133)	CST (Danvers, USA)	9198	0.1 (WB) 2.0 (IHC) 4.0 (CHIP)	
SRF	CST (Danvers, USA)	5147	0.1 (WB)	
Calponin	Abcam (Cambridge, UK)	ab46794	0.1(WB) 1.0 (IF)	

SM22 α	Abcam (Cambridge, UK)	ab14106	1.0 (WB) 5.0 (IF)	
Ki-67	Abcam (Cambridge, UK)	Ab15580	5.0 (IHC)	
IgG	CST (Danvers, USA)	3900	4.0 (IHC)	
β -actin	Boster (Wuhan, China)	BM0627	0.4 (WB)	
Histone H3	Boster (Wuhan,China)	BM4715	1.0 (WB)	

p-Akt (Ser473), Phospho-Akt (Ser473); p-YAP (Ser127), Phospho-yes-associated protein(Ser127); p-CREB (Ser133), Phospho- cyclic AMP-response element binding protein (Ser133); SRF, Serum response factor; SM22 α , SM22 alpha; β -actin, beta actin; WB - Western blotting; IF - immunofluorescence; IHC - Immunohistochemistry; IP – Immunoprecipitation; Chip - Chromatin IP; CST, Cell signaling technology.

Cultured Cells

Name	Vendor or Source	Sex (F, M, or unknown)
Aortic SMC from WT mice	Investigator generated	male
Aortic SMC from PI3K $\gamma^{-/-}$ mice	Investigator generated	male