

1 **Supplemental Figure Legends**

2 **Fig. S1. Validation of phosphorylation-specific Mst1/2 antibody.** Sequential sections were
3 stained with insulin antibody (left) or PO₄-Mst1/2 antibody (center = mock phosphatase
4 treatment, right = phosphatase treated).

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6 **Fig. S2. Mst1/2 knockout in the E16.5 pancreas.** Sections from embryonic day-16.5 mouse
7 pancreas were stained with antibodies specific for Mst1/2 and E-cadherin. Note the remaining
8 cells positive for Mst1/2 in the Hippo knockout pancreas are negative for the epithelial marker E-
9 cadherin.

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11 **Fig. S3. Taz activation following Mst1/2 loss.** Pancreas sections from 6-week old offspring
12 were probed with antibody specific for Taz. Arrows indicate areas of Taz nuclear localization.

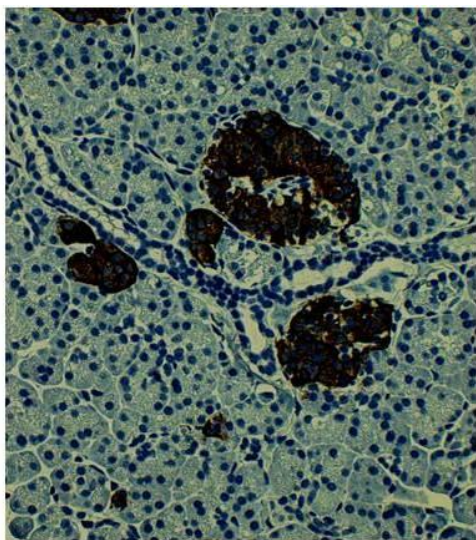
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14 **Fig. S4. Time course analysis of Mst12 KO pancreas.** Pancreas was removed from offspring
15 at the indicated age following birth (range = 2 days to 1 year) and stained with Hematoxylin and
16 Eosin. Transitional structures, harboring mixed differentiation status, were conserved
17 throughout the life of the Mst1/2 KO's.

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19 **Fig. S5. Apoptotic cells are infrequent in the Mst1/2 KO pancreas.** Sections were from 6-
20 week old control or Mst1/2 KO offspring were TUNEL stained to determine levels of apoptosis.
21 The positive control was provided in the commercially available kit. Numbers of apoptotic cells
22 were not significantly different between control and Mst1/2 KO offspring.

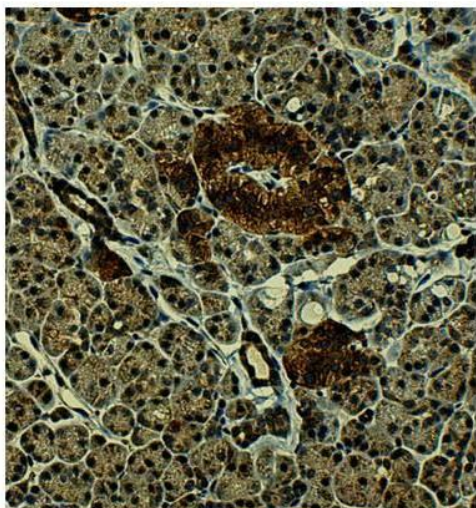
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24 **Fig. S1**

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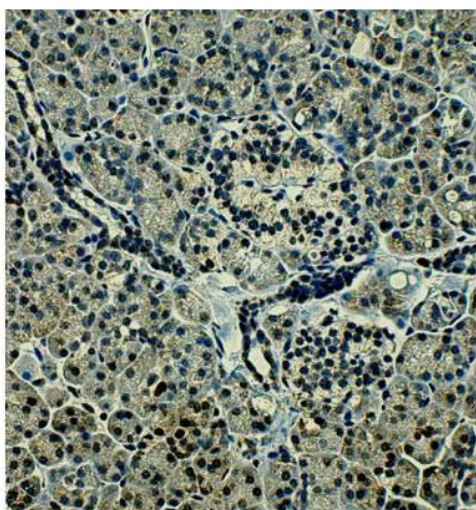


Insulin



PO4-Mst1/2

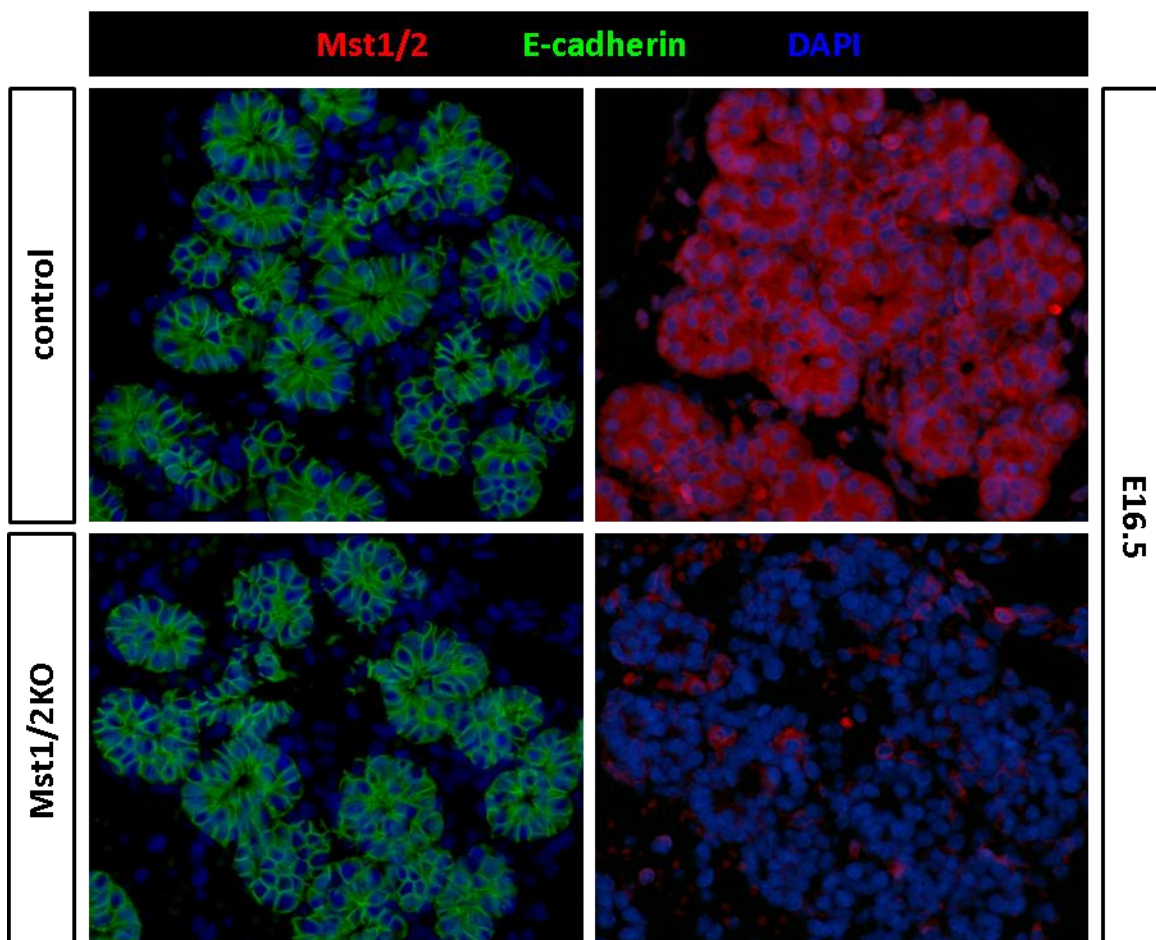
- PPase



+ PPase

47 Fig. S2

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70 Fig. S3

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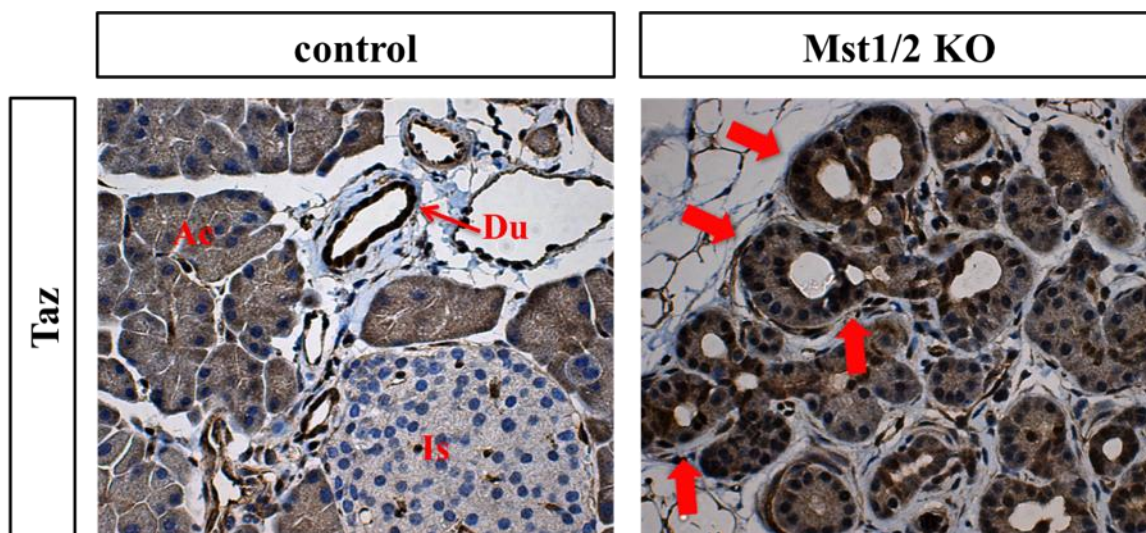
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93 Fig. S4

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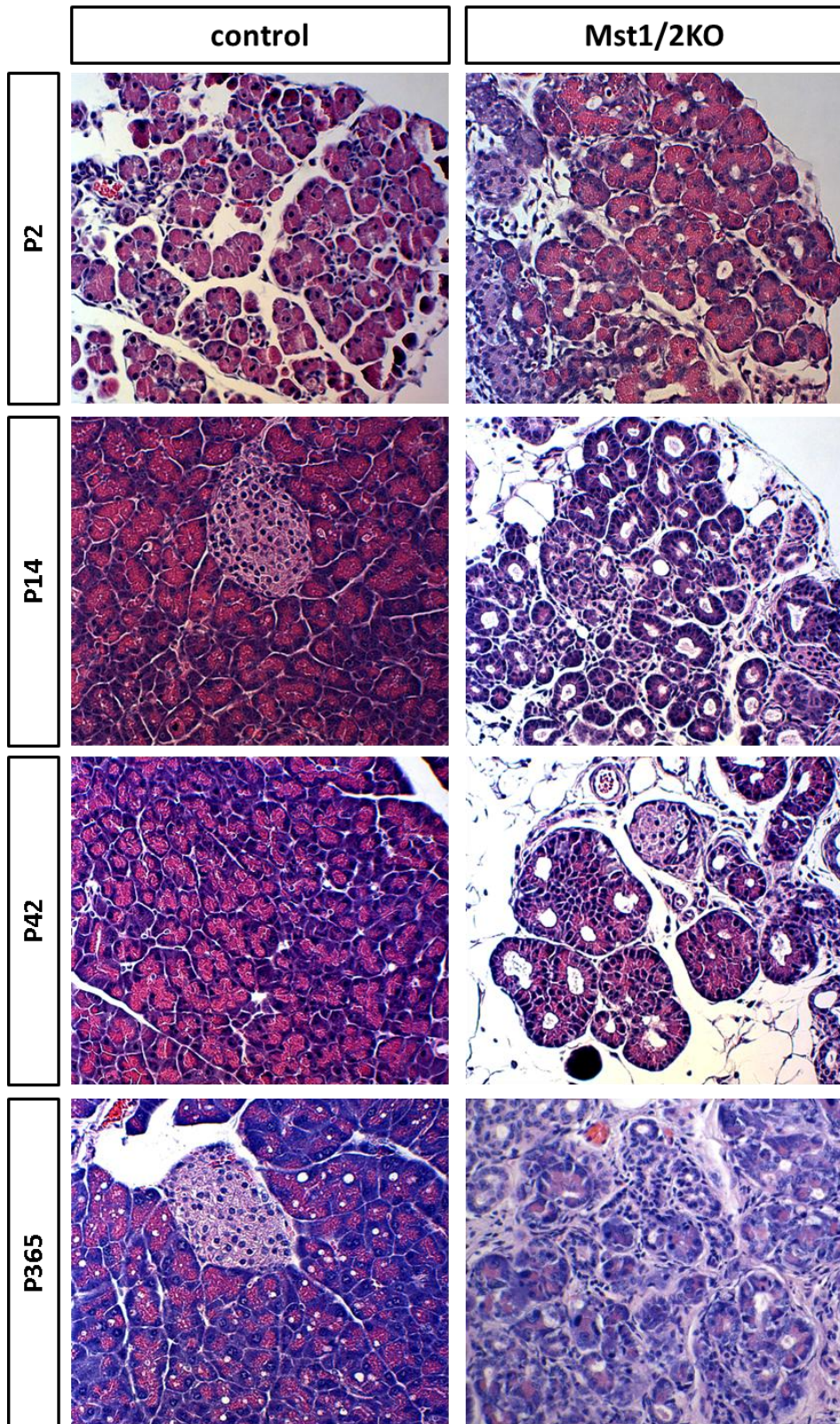
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116 Fig. S5

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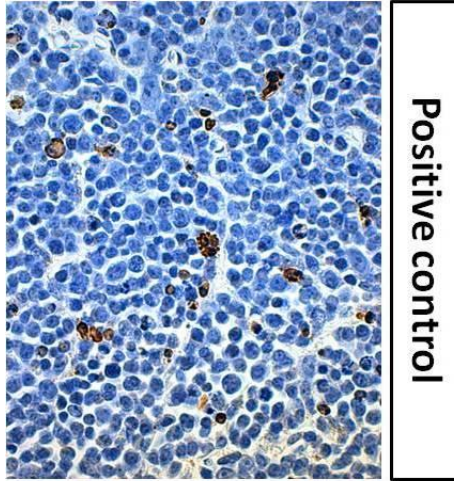
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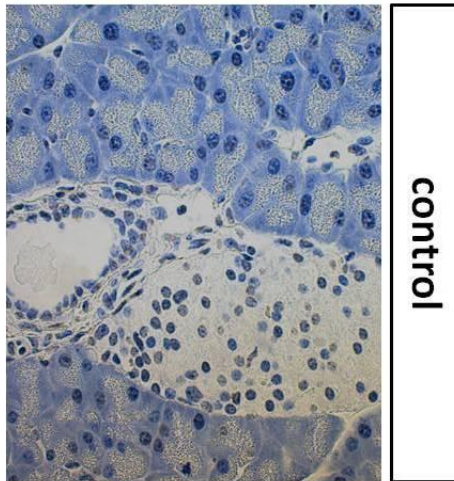
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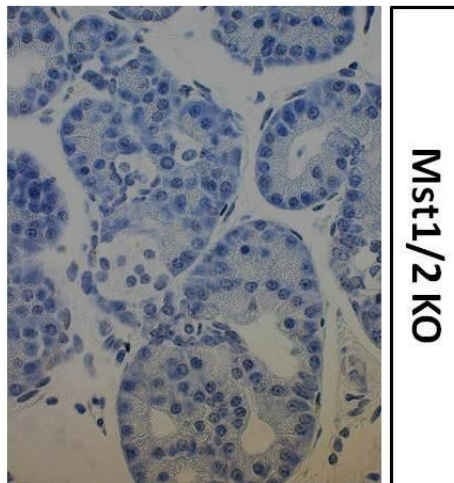
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139 **Table. S1**

	Antibody	Supplier	Cat#	host	usage
140	Ki67	AbCam	ab15580	Rabbit	IHC/IF
141	Mst1/2	AbCam	ab87322	Rabbit	IF
	CD3	AbCam	ab5690	Rabbit	IF
142	BrdU	AbCam	ab6326	Rabbit	IF
	Ptf1a	BCBC	AB2153	Rabbit	IHC/IF
143	E-Cadherin	BD	610181	Mouse	IF
	Mac3	BD	550292	Rat	IHC
144	Insulin	Cell Signaling	4590	Rabbit	IHC/IF
	Yap	Cell Signaling	4912	Rabbit	IHC/WB
	PO4-Lats1	Cell Signaling	9157	Rabbit	WB
145	Lats1	Cell Signaling	9153	Rabbit	WB
	PO4-Mst1/2	Cell Signaling	3681	Rabbit	IHC
146	Glucagon	Cell Signaling	2760	Rabbit	IHC/IF
	β -catenin	Cell Signaling	9562	Rabbit	IHC
147	Tcf1	Cell Signaling	2203	Rabbit	IHC
	PO4-S6	Cell Signaling	4858	Rabbit	IHC
148	PO4-4EBP1	Cell Signaling	2855	Rabbit	IHC
	Ngn3	DSHB	F25A1B3	Mouse	IHC
149	Pdx1	DSHB	F6A11	Mouse	IHC
	CK19	DSHB	TROMA-III	Mouse	IHC/IF
150	c-Myc	Epitomics	1472-1	Rabbit	IHC
	Hes1	Fuchs Lab		Rabbit	IHC
	Sox9	Millipore	AB5535	Rabbit	IHC
151	active β -catenin	Millipore	05-665	Mouse	IHC
	CPA1	ProteinTech	15836-1-AP	Rabbit	WB
152	Yap1	ProteinTech	13584-1-AP	Rabbit	IF
	Sox9	Santa Cruz Bio	sc-17341	Goat	IF
153	Insulin	Sigma	I2018	Mouse	IF
	Amylase	Sigma	A8273	Rabbit	IHC/IF
154	Taz	Sigma	HPA007415	Rabbit	IHC
	BrdU	Thermo Sci	MS-1058-P0	Mouse	IHC
155	PO4-Yap	Thermo Sci	PA5-17481	Rabbit	IHC
	Mist1	Thermo Sci	MA1-517	Mouse	IHC
156	Muc1	Thermo Sci	Ab-5	Hamster	IF