

# Rat $\beta$ -Cells Lose Their Proliferative Ability After Birth Through P53 Upregulation

著者名	MOCHIZUKI Shota, MATSUURA Katsuhisa, MIURA Junnosuke, SHIMIZU Tatsuya, BABAZONO Tetsuya
journal or publication title	Tokyo Women's Medical University Journal
volume	6
page range	91-100
year	2022-12-20
URL	<a href="http://hdl.handle.net/10470/00033367">http://hdl.handle.net/10470/00033367</a>

doi: 10.24488/twmuj.2022008

**Supplementary Table 1.** Antibodies applied for fluorescence immunostaining and western blot.

<u>Antigen</u>	<u>Species</u>	<u>Cat No.</u>	<u>Company</u>	<u>Dilution</u>
PDX1	Goat	AF2419	R&D Systems	1:100
Phosphorylated histone H3	Rabbit	ab5176	Abcam	1:100
Ki67	Rabbit	ab15580	Abcam	1:100
C-peptide	Mouse	NBP1-05433	Novus Biologicals	1:100
GAPDH	Rabbit	ab9485	Abcam	1:1000
p53	Rabbit	bs-0033R	Bioss	1:1000
Donkey Anti-Goat IgG H&L Alexa Fluor 488	Donkey	ab150129	Abcam	1:300
Donkey Anti-Rabbit IgG H&L Alexa Fluor 594	Rabbit	ab150076	Abcam	1:300

**Supplementary Table 2.** List of primers used for Applied Biosystems PCR assay.

<u>Gene</u>	<u>Applied Biosystems TaqMan assay ID</u>
Pak4	Rn01764387_m1
Cdkn1b	Rn00582195_m1
Tp53	Rn007557171_m1
ACTB	Rn00667869_m1
GAPDH	Rn01775763_g1

**Supplementary Table 3.** Number of PDX1-positive cells per islet after 2 weeks of administration of Pifithrin- $\alpha$

DMSO	PDX1 positive cells	Number of islet	PDX1 positive cells/Number of islet
A	2063	18	115
B	1287	16	80
C	8244	44	187
D	5042	26	194
E	5275	25	211
average	4382	26	158

Pifithrin- $\alpha$	PDX1 positive cells	Number of islet	PDX1 positive cells/Number of islet
A	10038	43	233
B	14995	56	268
C	6229	40	156
D	6217	37	168
E	5051	29	174
average	8506	41	200