

ESM Table 1: Antibodies used in this study.

Primary Antibody	Vendor	Cat. No.	Fold Dilution
Mouse anti-insulin	Sigma	I2018-.2ML	500
Rabbit anti-glucagon	Cell Signalling	2760S	200
Mouse anti-glucagon	Sigma	G2654-.2ML	200
Rabbit anti-cleaved caspase-3	Cell Signaling	9661	150
Rabbit anti-Ki67	Thermo Scientific	RM-9106-SO	150
Mouse anti-53BP1	Santa Cruz Biotechnology	Sc-22760	500
Secondary Antibody	Vendor	Cat. No.	Fold Dilution
Goat anti-mouse IgG Alexa Fluor 568	Invitrogen	A11004	1000
Goat anti-rabbit IgG Alexa Fluor 488	Invitrogen	A11008	500
Donkey anti- goat IgG Alexa Fluor 488	Invitrogen	A11055	500
Donkey anti-mouse IgG Cy3	Jackson ImmunoResearch	715-175-151	800