

Table S1

Primary Antibody	Host	Company	Catalog No.	Lot No.	Dilution
Anti- α -synuclein 81a (pSer129)	Mouse	BioLegend	825701	B213120	1:1000
Anti- α -synuclein EP1536Y (pSer129)	Rabbit	Abcam	ab 51253	GR285618-8	1:1000
Anti-NeuN	Guinea pig	Millipore	ABN90	2872224	1:6000
Anti-Tyrosine Hydroxylase	Mouse	Millipore	MAB318	2742733	1:2000
Anti-Dopamine Transporter	Rat	Millipore	MAB369	2701007	1:4000

Secondary Antibody	Host	Company	Catalog No.	Lot No.	Dilution
Goat anti-mouse @555	Goat	Life Technologies	A21424	1141876	1:1000
Donkey anti-guinea pig @ 647	Donkey	Jackson ImmunoResearch	706-605-148	123960	1:1000
Goat anti-rabbit @ 555	Goat	Life Technologies	A21429	1562309	1:1000
Donkey anti-rat @ 790	Donkey	Jackson ImmunoResearch	712-655-150	106408	1:1000
Donkey anti-mouse @ 680	Donkey	Jackson ImmunoResearch	712-625-151	127891	1:1000
Donkey anti-mouse @ 647	Donkey	Jackson ImmunoResearch	712-605-150	127706	1:1000
Goat anti-mouse @ 488	Goat	Life Technologies	A11029	1550911	1:1000