

Supplementary Figure 1.

Scatter plots representing the densitometric ratio of levels for TH, alpha-synuclein, phospho-alpha-synuclein, GFAP, RAB12, GBA, VPS13C and Cathepsin D with respect to Total Protein as measured in the substantia nigra in the brains of Vehicle or Captopril treated groups. One-way ANOVA confirmed there was no statistical difference between protein expression in captorpril or vehicle treated groups thus, Sham + captorpril and Sham + vehicle samples were pooled and Radiation + captorpril and Radiation + vehicle samples were pooled for overall data analysis resulting in n=8 for Sham and n=6 for Radiation.

Supplementary Figure 2.

Scatter plots representing the densitometric ratio of levels for ATP5A, SDHB and NDUF8 with respect to Total Protein as measured in the substantia nigra in the brains of Vehicle or Captopril treated groups. One-way ANOVA confirmed there was no statistical difference between protein expression in captorpril or vehicle treated groups thus, Sham + captorpril and Sham + vehicle samples were pooled and Radiation + captorpril and Radiation + vehicle samples were pooled for overall data analysis resulting in n=8 for Sham and n=6 for Radiation.

Supplementary Figure 3.

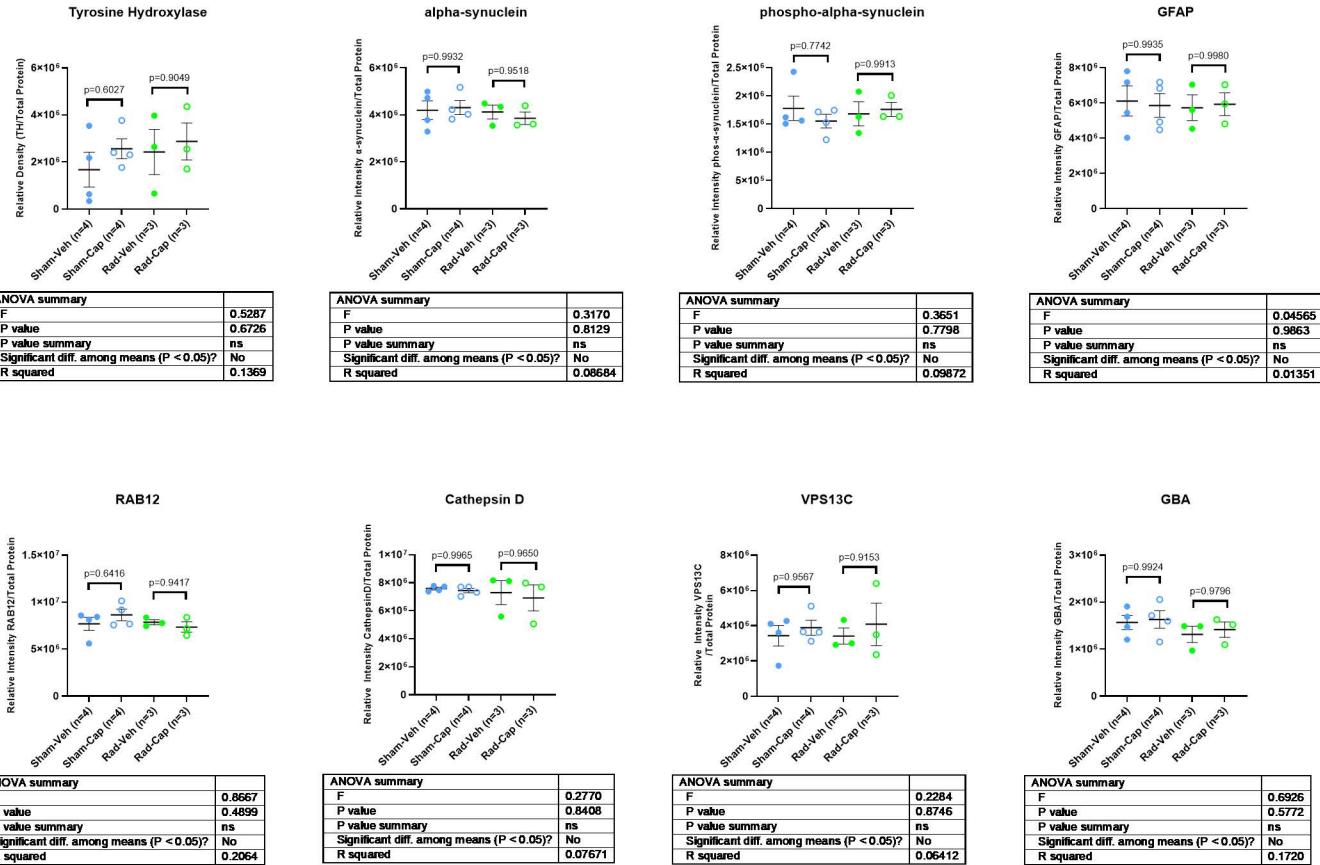
Images of the full-length blots for alpha-synuclein, phospho-alpha-synuclein, tyrosine hydroxylase and GBA1 along with their associated Total Protein stains. Blots correspond to the cropped images in Figure 1.

Supplementary Figure 4.

Images of the full-length blots for GFAP, RAB12, VPS13C and Cathepsin D along with their associated Total Protein stains. Blots correspond to the cropped images in Figure 1.

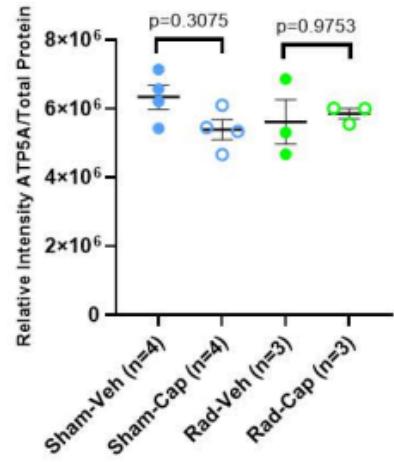
Supplementary Figure 5.

Images of the full-length blots for ATP5A, SDHB and NDUF8 along with their associated Total Protein stains. Blots correspond to the cropped images in Figure 2.



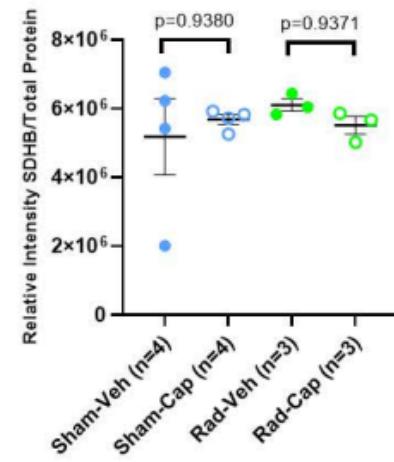
Supplementary Figure 1

ATP5A



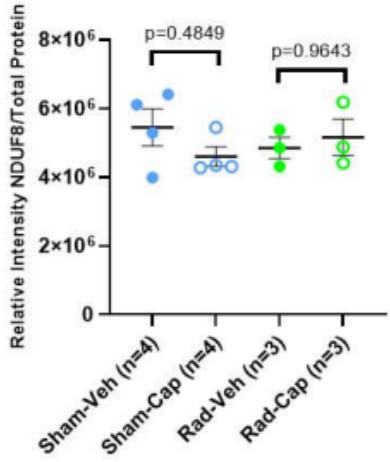
ANOVA summary	
F	1.232
P value	0.3486
P value summary	ns
Significant diff. among means (P < 0.05)?	No
R squared	0.2699

SDHB



ANOVA summary	
F	0.3261
P value	0.8066
P value summary	ns
Significant diff. among means (P < 0.05)?	No
R squared	0.08912

NDUF8



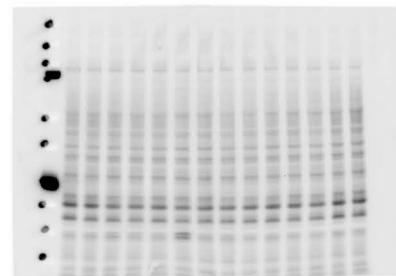
ANOVA summary	
F	0.8006
P value	0.5214
P value summary	ns
Significant diff. among means (P < 0.05)?	No
R squared	0.1937

Supplementary Figure 2

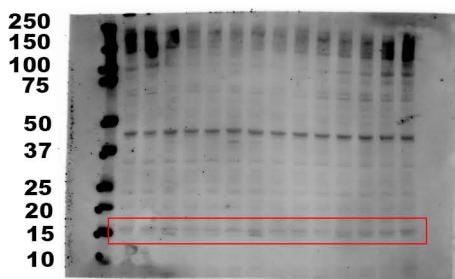
**Alpha synuclein 1:1000
14 kDa**



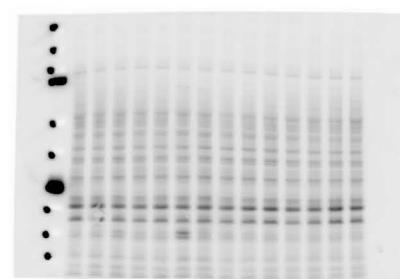
**Total Protein
alpha synuclein**



**phospho-Alpha synuclein 1:1000
14kDa**



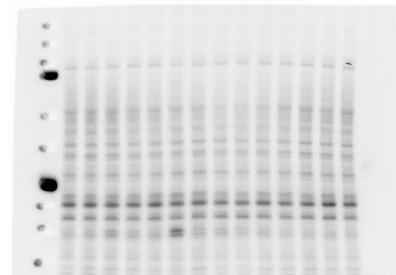
**Total Protein
phospho-alpha synuclein**



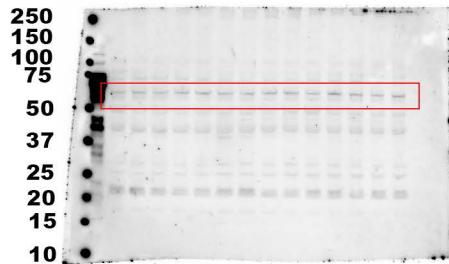
**Tyrosine Hydroxylase 1:1000
60kDa**



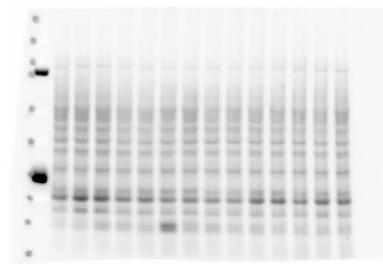
**Total Protein
Tyrosine Hydroxylase**



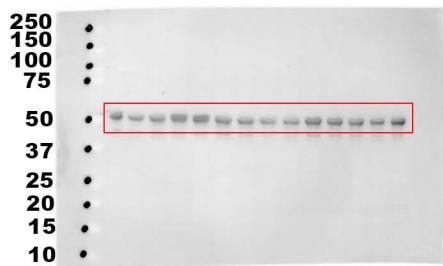
**GBA 1:500
60-65 kDa**



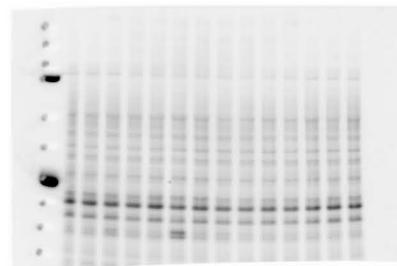
**Total Protein
GBA**



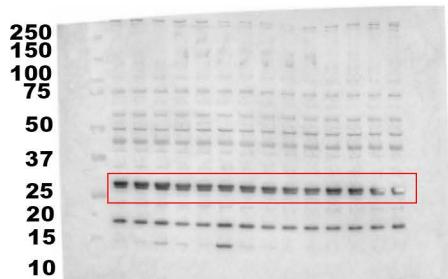
**GFAP 1:40000
50kDa**



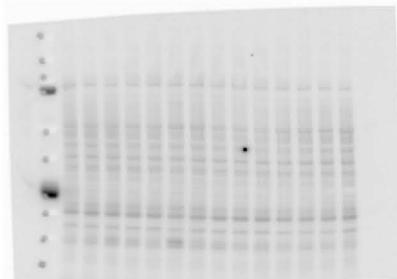
**Total Protein
GFAP**



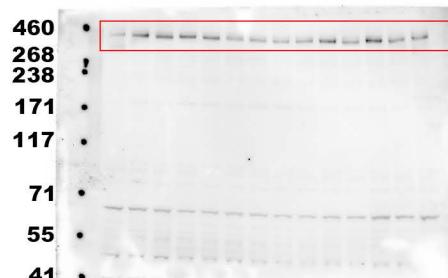
**RAB12 1:1000
28kDa**



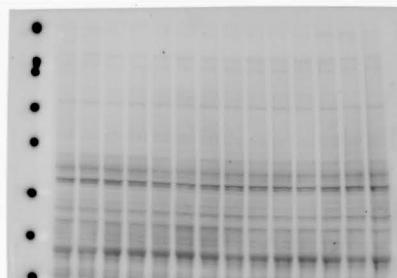
**Total Protein
RAB12**



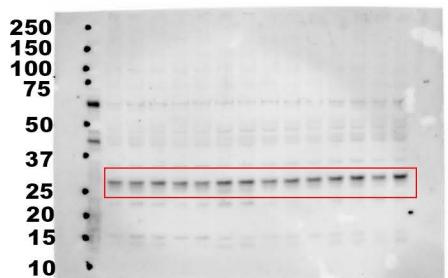
**VPS13C 1:2000
422kDa**



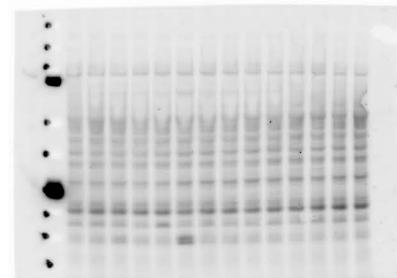
**Total Protein
VPS13C**



**Cathepsin D 1:2500
32kDa**



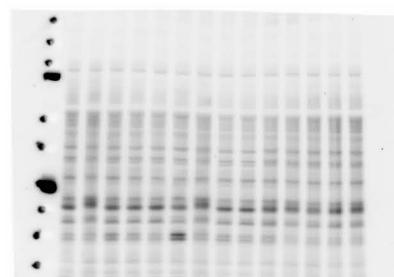
**Total Protein
Cathepsin D**



ATP5A 1:1000
60kDa



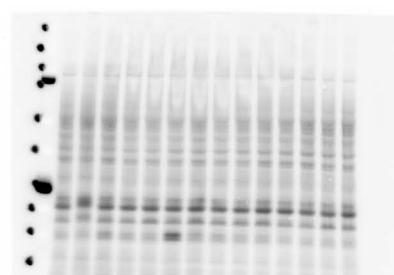
Total Protein
ATP5A



SDHB 1:500
32kDa



Total Protein
SDHB



NDUF8 1:500
22kDa



Total Protein
NDUF8

