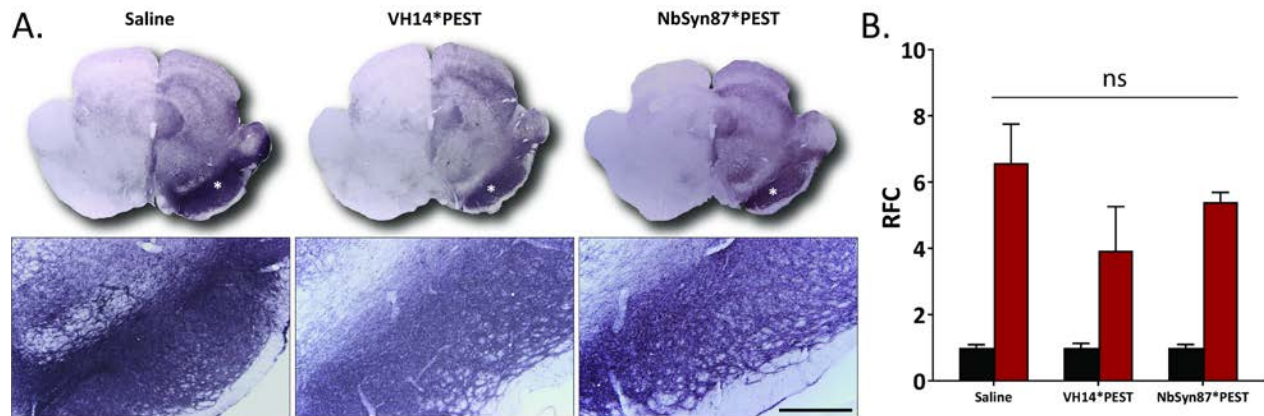




22 **Supplemental figures**

23



24

25

26 *Figure S1.*

27  $\alpha$ -Syn expression levels in the substantia nigra are not significantly reduced post-intrabody

28 treatment. **A)** Immunolabeling of human specific  $\alpha$ -syn (LB509) in the substantia nigra. **B)**

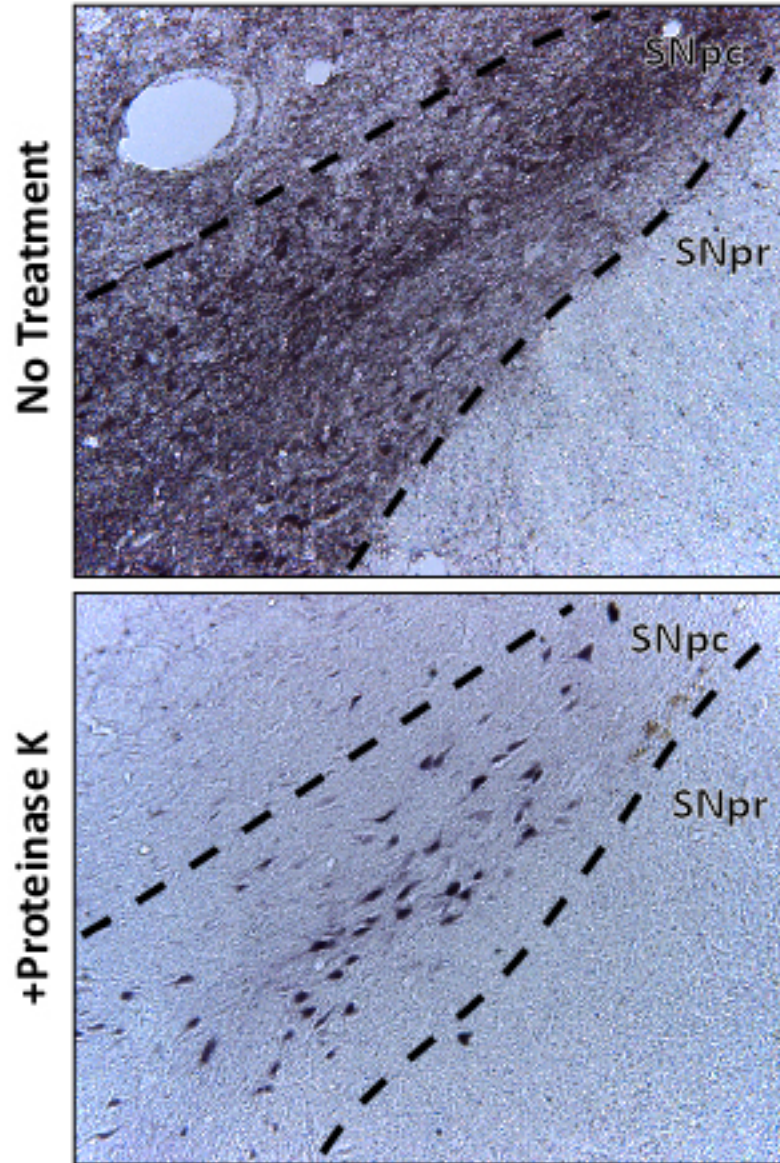
29 Densitometric quantification of LB509 labeling reveals decreases in intrabody treated-cohorts,

30 but not at statistically significant levels. The data were analyzed via one-way ANOVA with

31 Tukey post-hoc comparisons (n=7 for all groups).

32

## LB509



33

34 *Figure S2.*

35 AAV5- $\alpha$ -Syn over expression in the substantia nigra pars compacta induces pathologic, insoluble

36 Lewy-body like cellular inclusions that are resistant to proteinase K digestion.

37

<b>Antibody Type</b>	<b>Antibody</b>	<b>Species</b>	<b>Company</b>	<b>Catalog #</b>	<b>Dilution</b>
<b>Primary Antibody</b>	pS129 alpha-synuclein	Rabbit	Abcam	ab51253	1:500
	LB509 alpha-synuclein	Mouse	Thermo Fischer	180215	1:500
	Tyrosine Hydroxylase	Rabbit	Immunostar	202984	1:5000
	DAT	Rabbit	EMD Millipore	MAB369	1:200
	Hemagglutinin	Mouse	Covance	MMS-101P	1:1000
	Iba-1	Rabbit	Wako	019-19741	1:2500
<b>Secondary Antibody</b>	Biotin. Goat Anti-rabbit	Goat	Vector Labs	BA-1000	1:200
	Biotin. Horse Anti-mouse	Horse	Vector Labs	BA-2000	1:200

39

40 *Table S1.*

41 List of primary and secondary antibodies used for immunohistochemistry and analysis.