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Figure 1

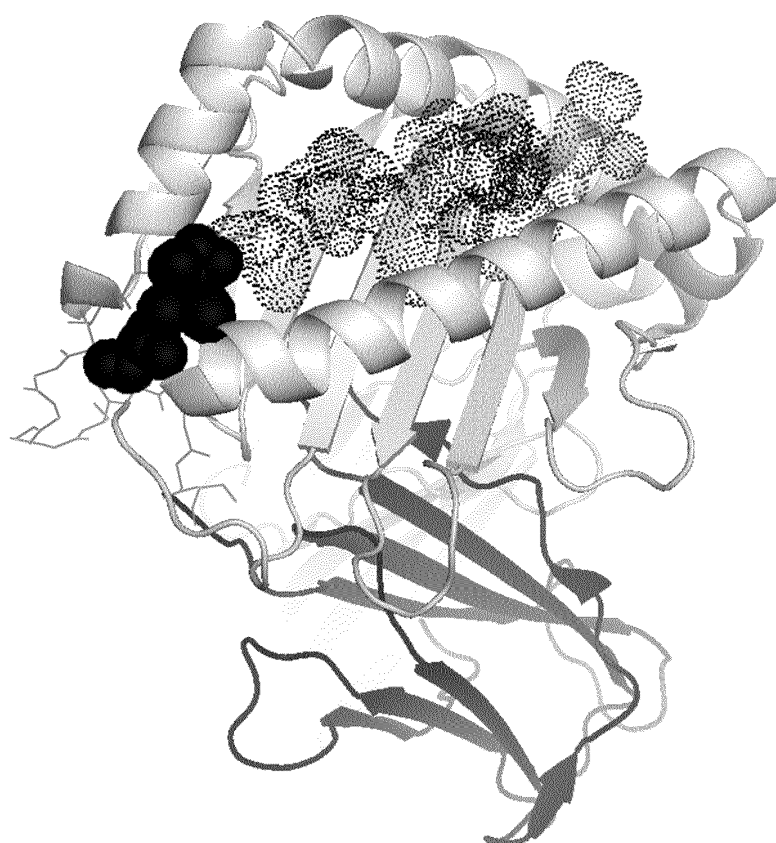


Figure 2

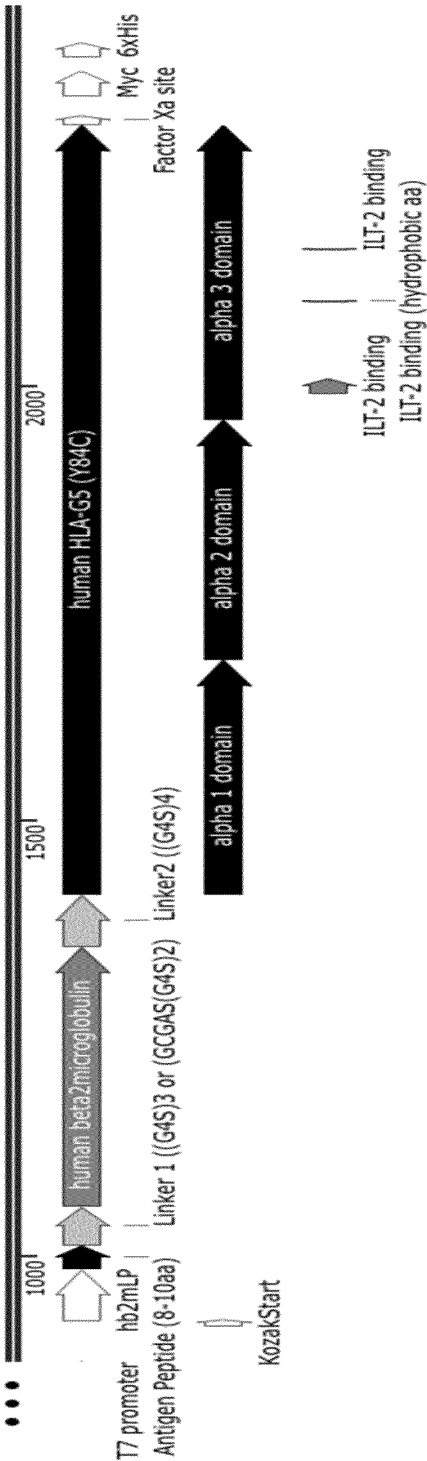
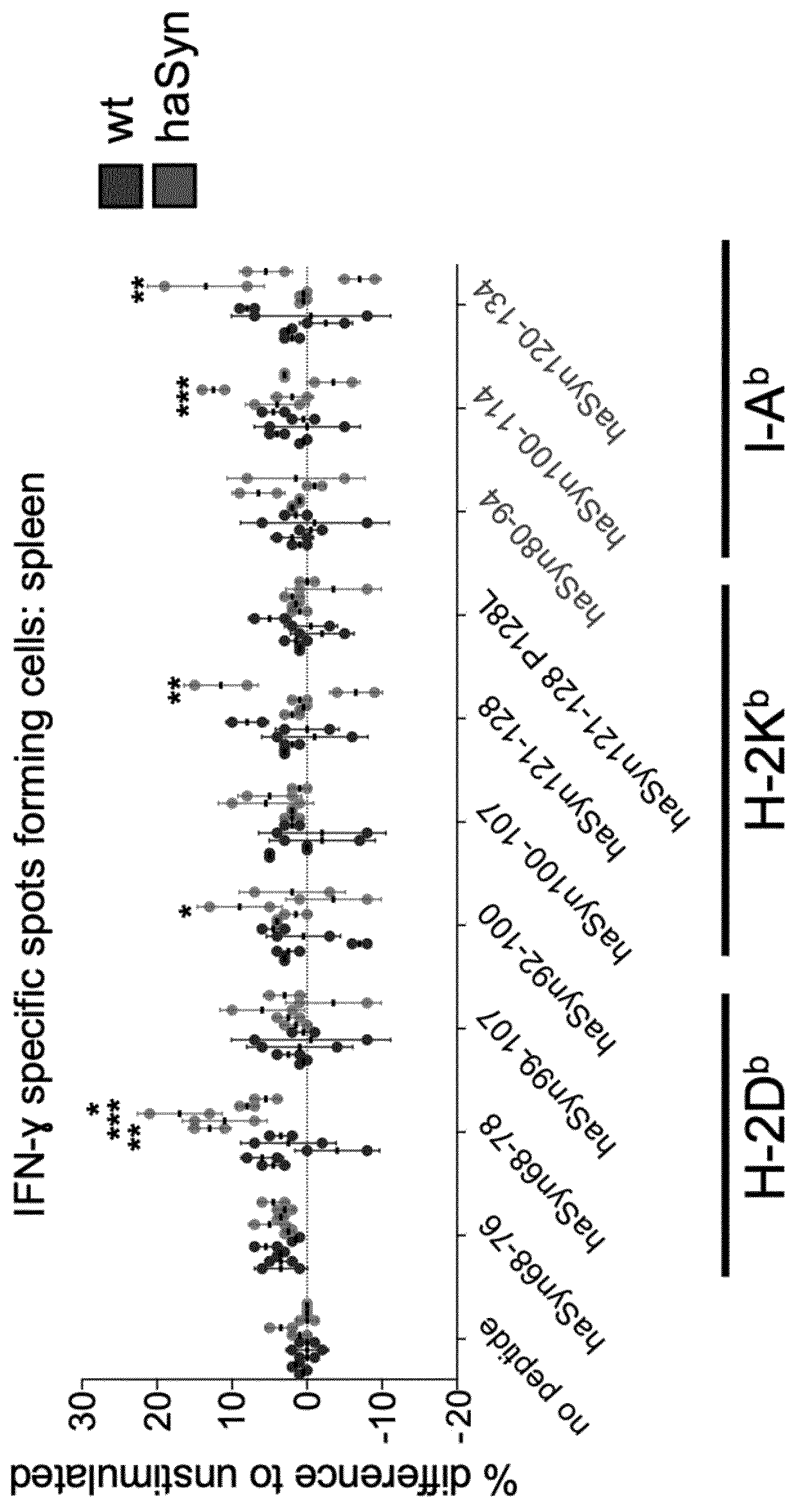


Figure 3



Predicted haSyn peptide sequence & corresponding MHC molecules

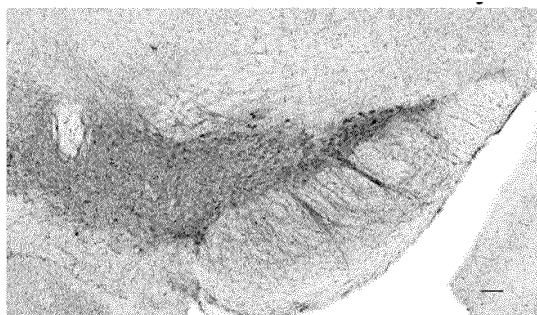
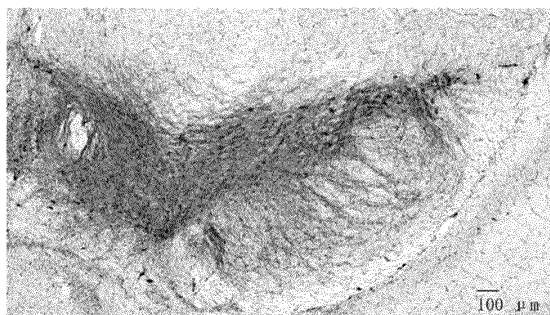
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Figure 4

A

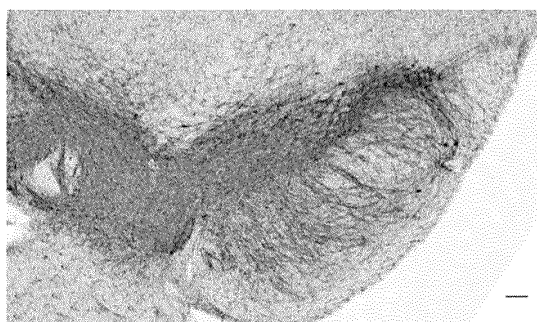
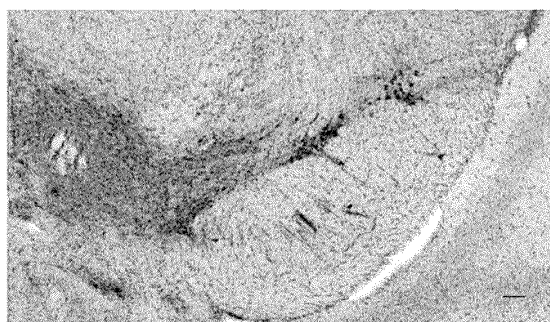
EV+PBS

A53T+0.5 μ g/g aSyn68_DbG

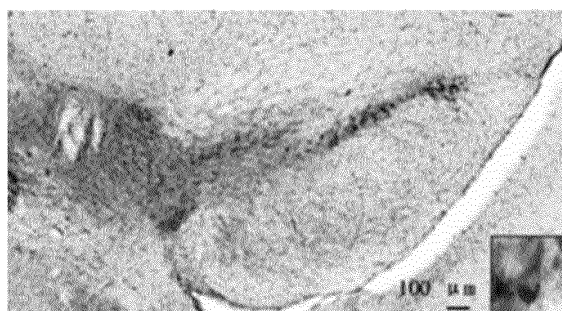


A53T+PBS

A53T+2 μ g/g aSyn68_DbG



A53T+2 μ g/g gp34_KbG

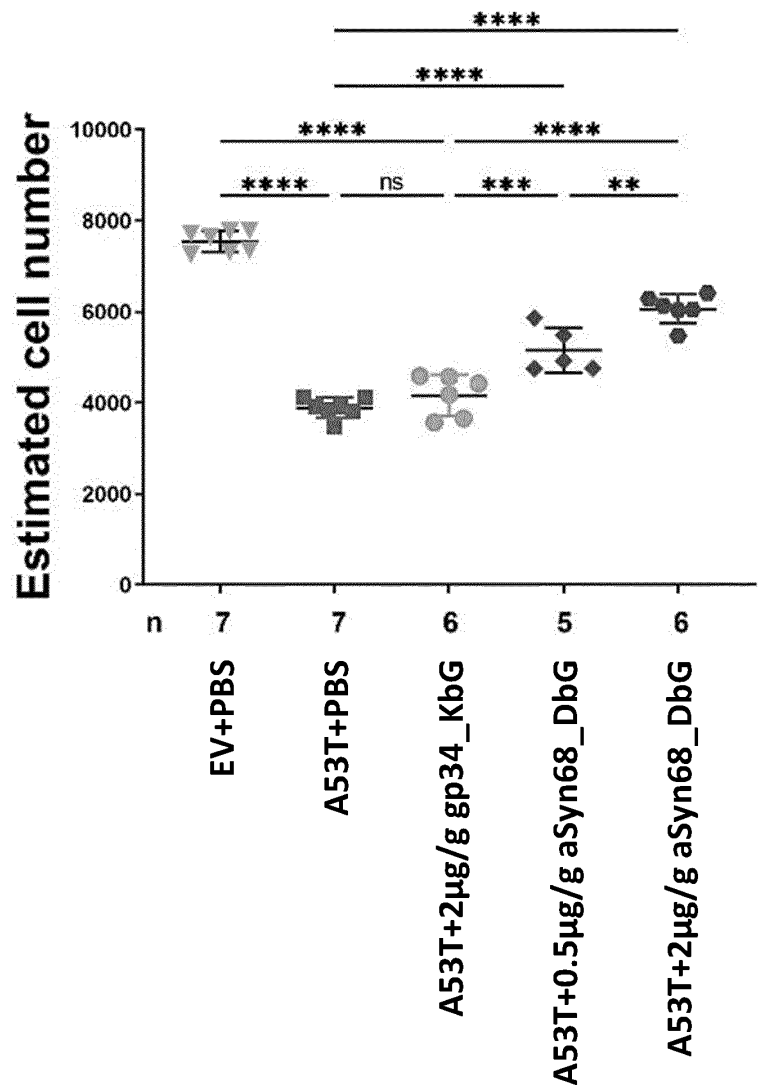


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Figure 4, continued

B

Number of dopaminergic SN neurons

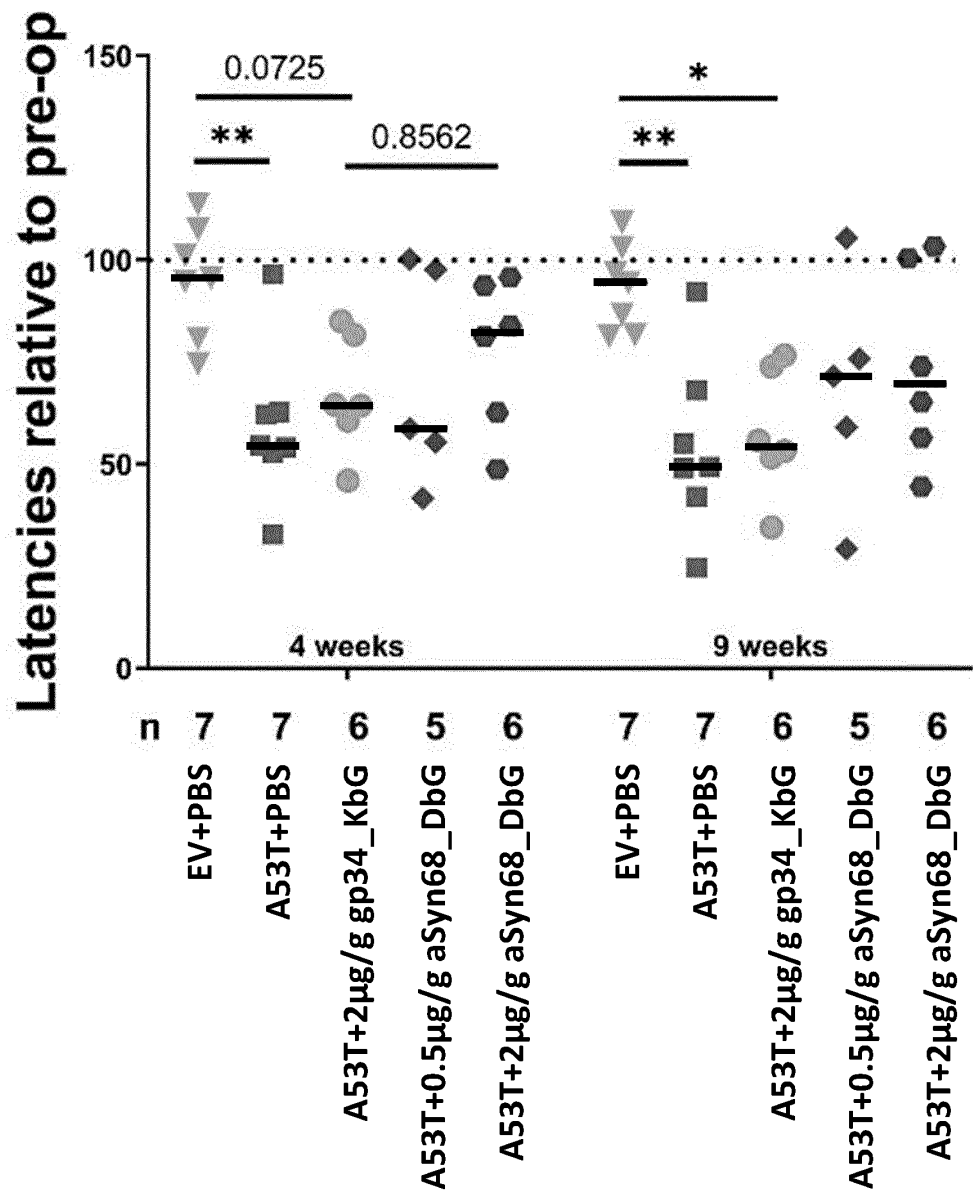


Mean and SD are indicated. One-way Anova with Tukey's post-hoc test, * < 0.05, ** < 0.01, *** < 0.001, **** < 0.0001

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Figure 4, continued

C Rotarod Test

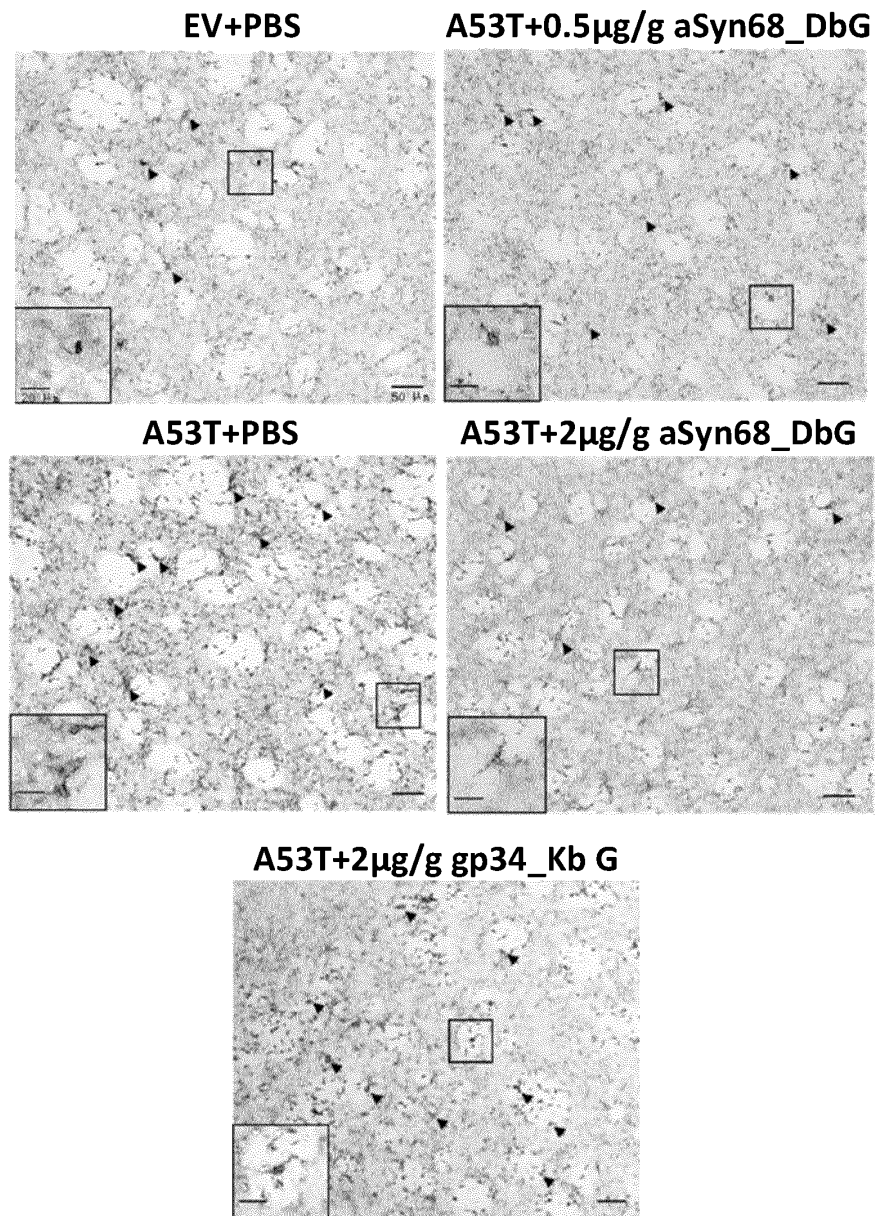


Mean values indicated by bar.

One-way Anova with Tukey's post-hoc test, * < 0.05, ** <0.01

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Figure 5

A CD11b+ microglia cells in the striatum

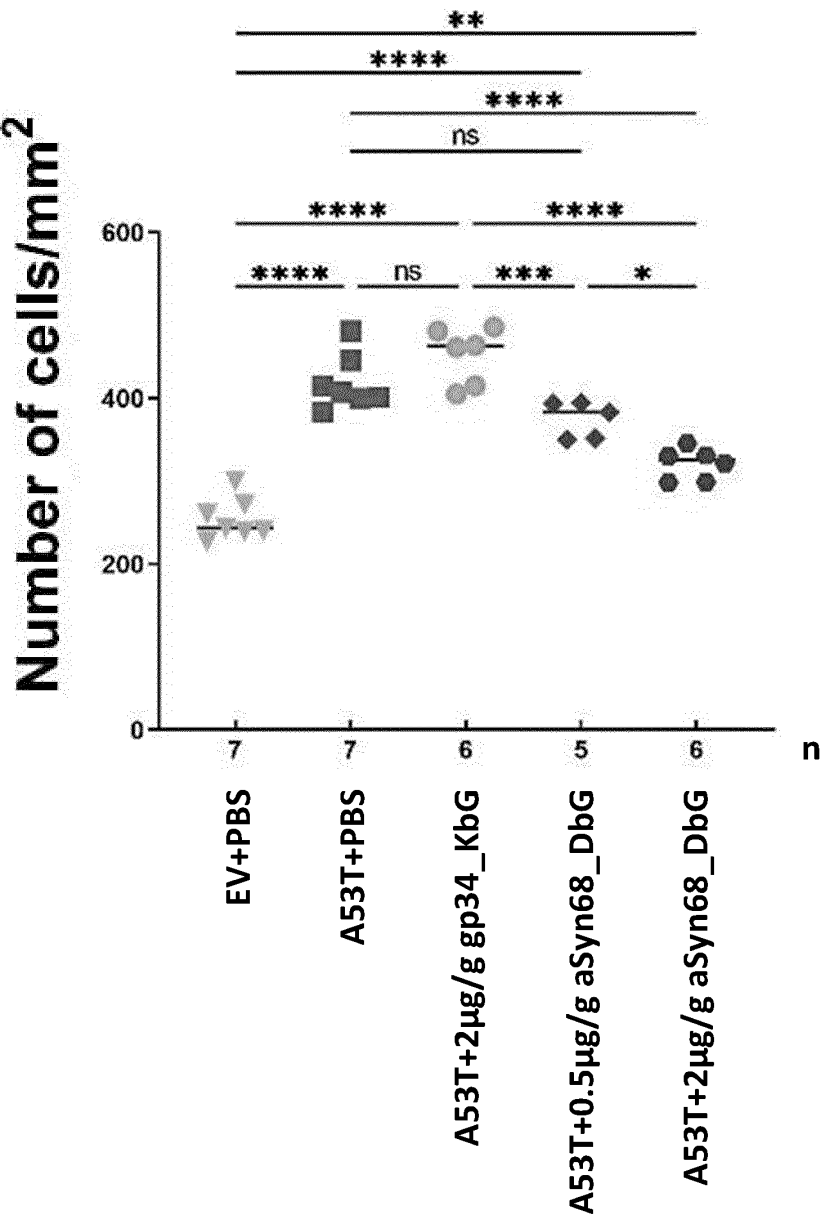
4% PFA fixed 10min

1st antibody rat anti mouse CD11b MCA711 1:100 1h

2nd antibody rabbit anti rat BA-4001 1:100 1h

Figure 5, continued

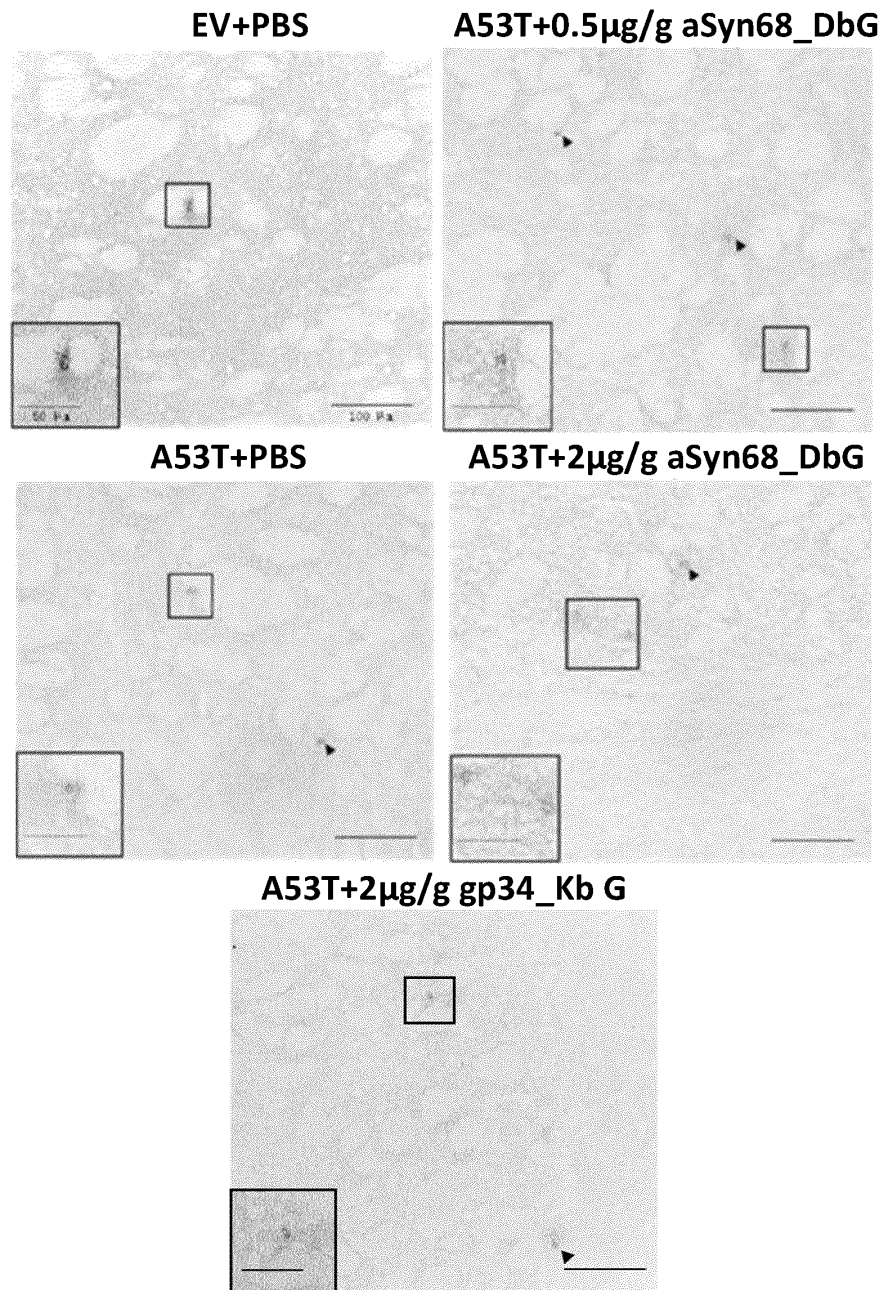
B **CD11b⁺ cells in the striatum**



Mean values indicated. One-way Anova with Tukey's post-hoc test, * < 0.05, ** < 0.01, *** < 0.001, **** < 0.0001

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Figure 5, continued

C**CD8+ T cells in the striatum**

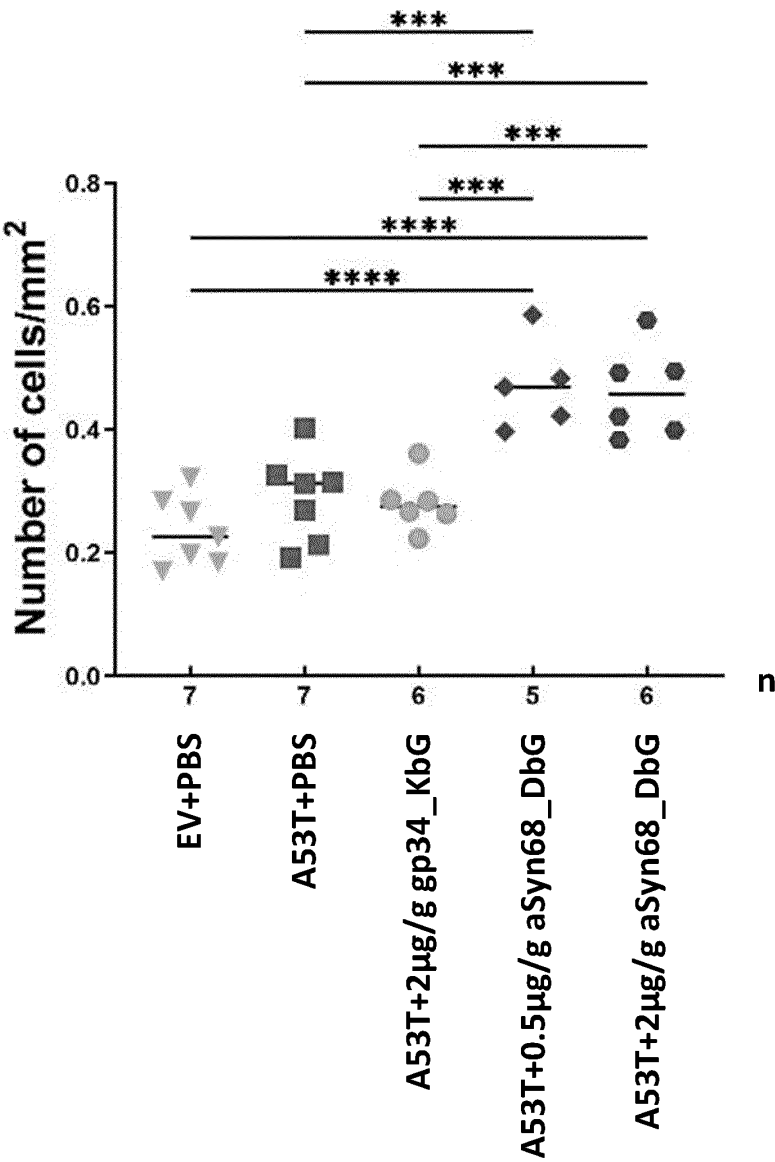
Aceton fixed 10min

1st antibody rat anti CD8 MCA609G 1:500 overnight2nd antibody rabbit anti Rat BA-4001 1:100 1h

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Figure 5, continued

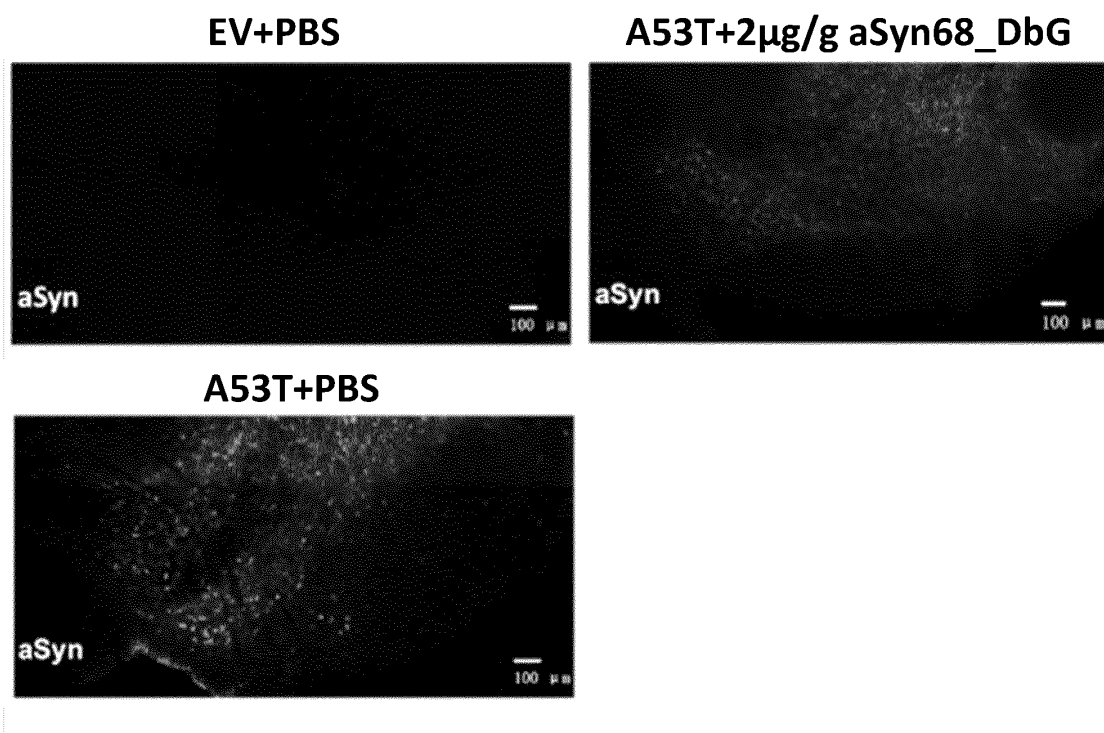
D CD8⁺ T cells in the striatum



Mean indicated. One-way Anova with Tukey's post-hoc test,
* < 0.05, ** < 0.01, *** < 0.001, **** < 0.0001

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Figure 6



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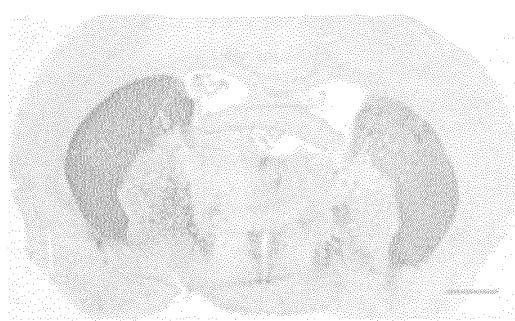
Figure 7

A

TH fibers in striatum

EV+PBS

A53T+0.5 μ g/g aSyn68_DbG



A53T+PBS

A53T+2 μ g/g aSyn68_DbG



A53T+2 μ g/g gp34_KbG

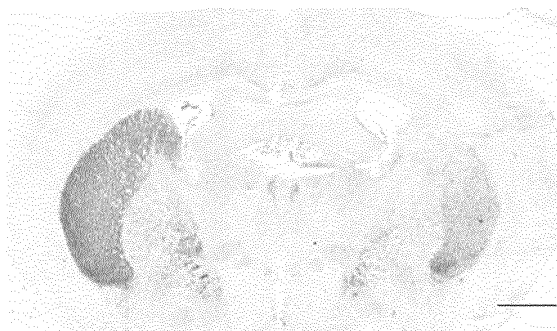
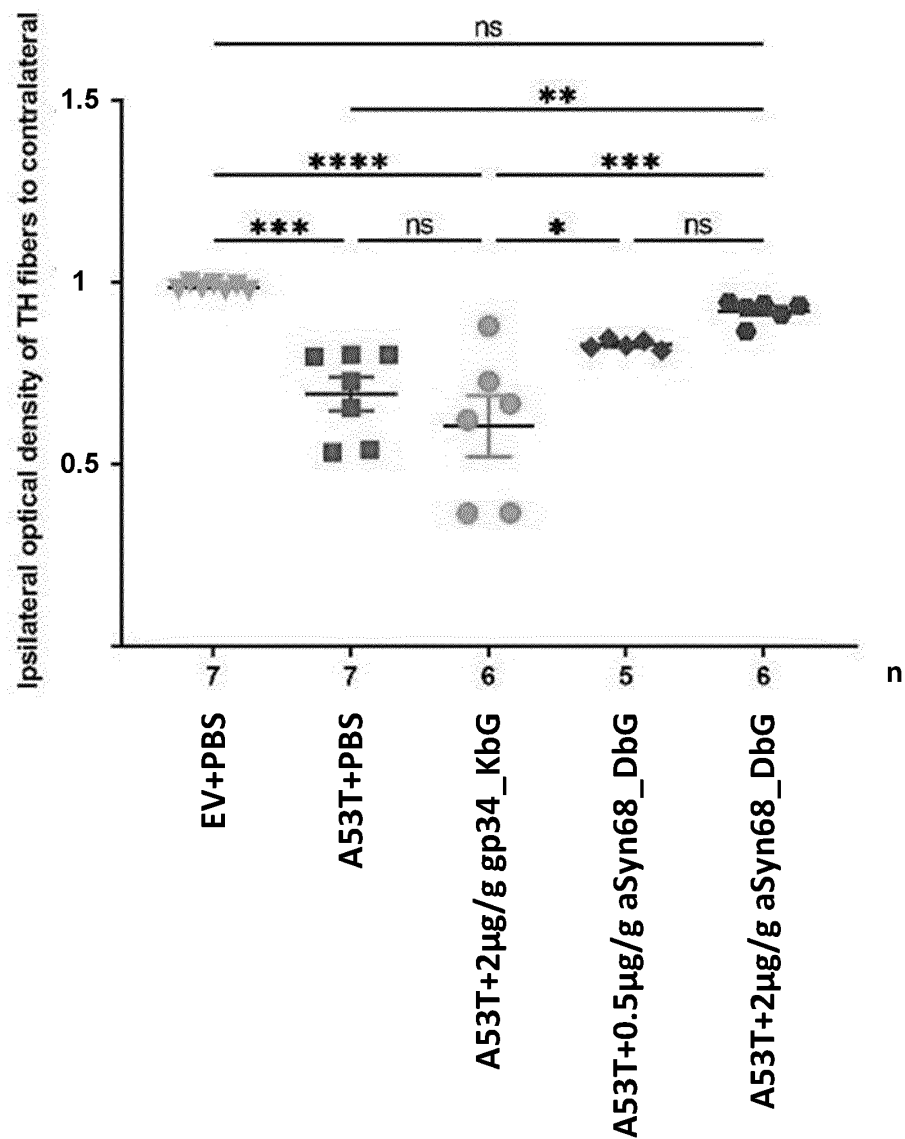


Figure 7, continued

B

Relative optical density of TH+ fibers in striatum

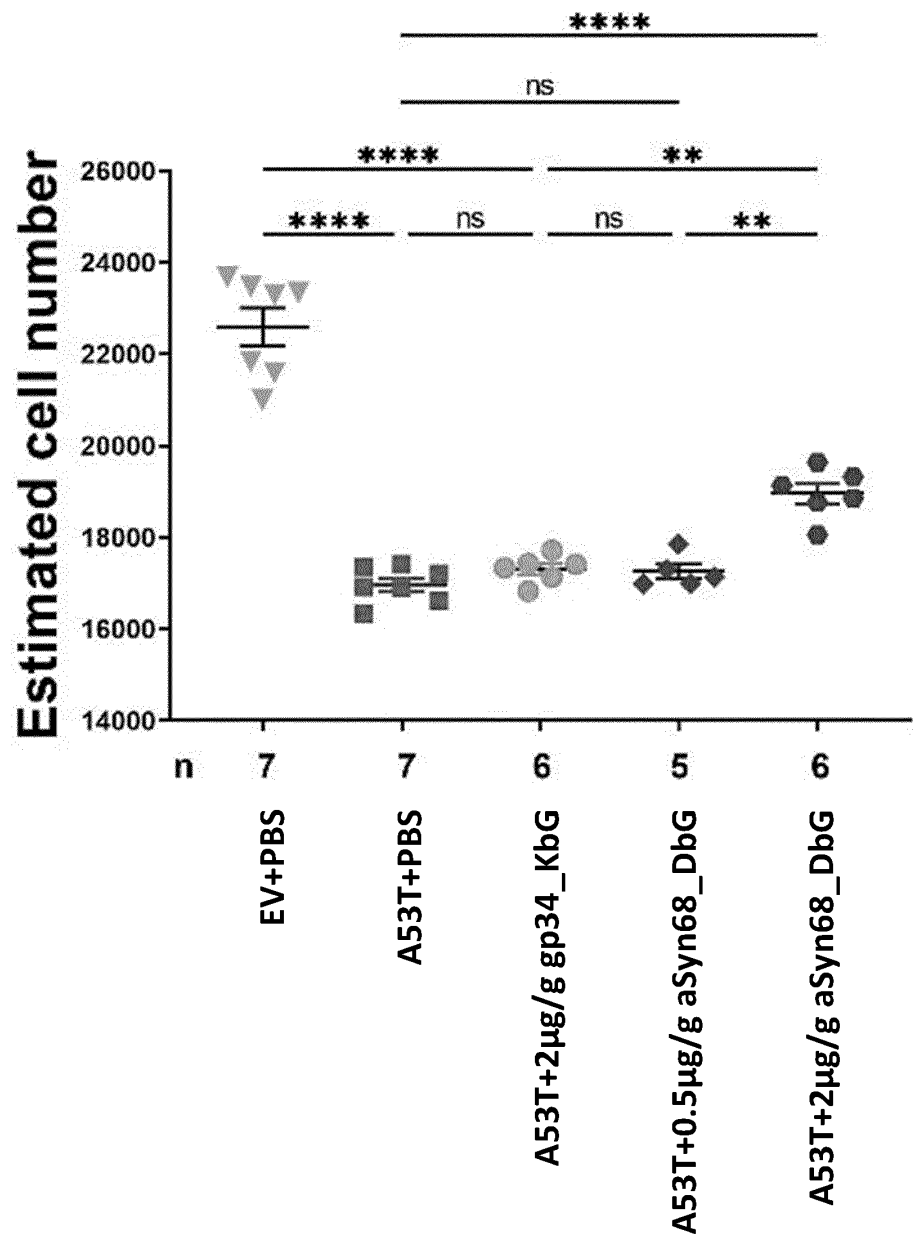


Mean and SD indicated. One-way Anova with Tukey's post-hoc test, * < 0.05, ** <0.01, *** <0.001, **** <0.0001

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Figure 7, continued

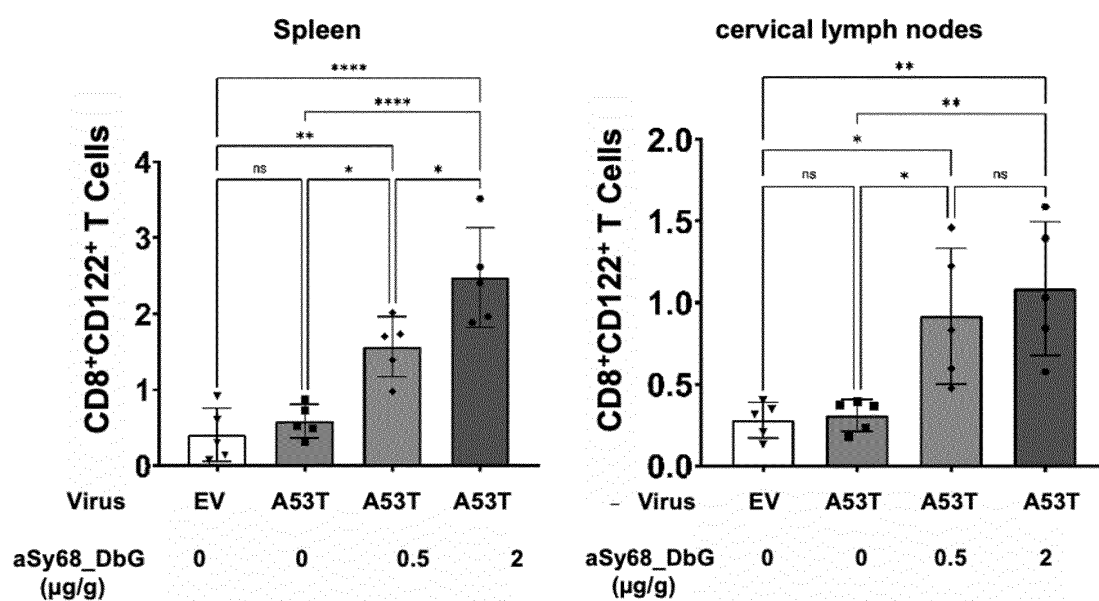
C Number of Nissl stained neurons



Mean and SD indicated. One-way Anova with Tukey's post-hoc test, * < 0.05, ** <0.01, *** <0.001, **** <0.0001

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Figure 8



Mean and SD indicated. One-way Anova with Tukey's post-hoc test, * < 0.05, ** < 0.01, *** < 0.001, **** < 0.0001

Figure 9

stability of purified single-chain MHC Ib molecules

A

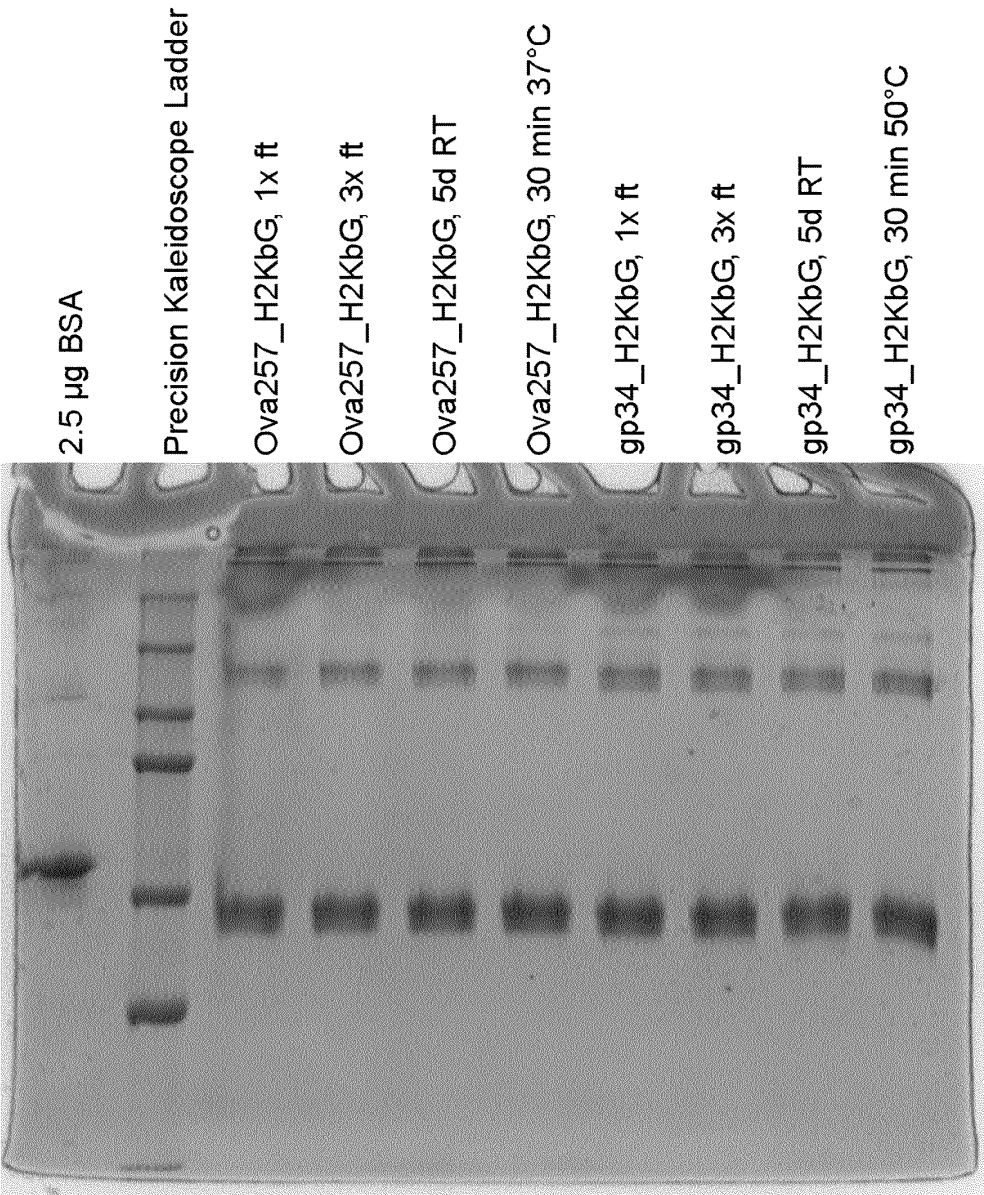
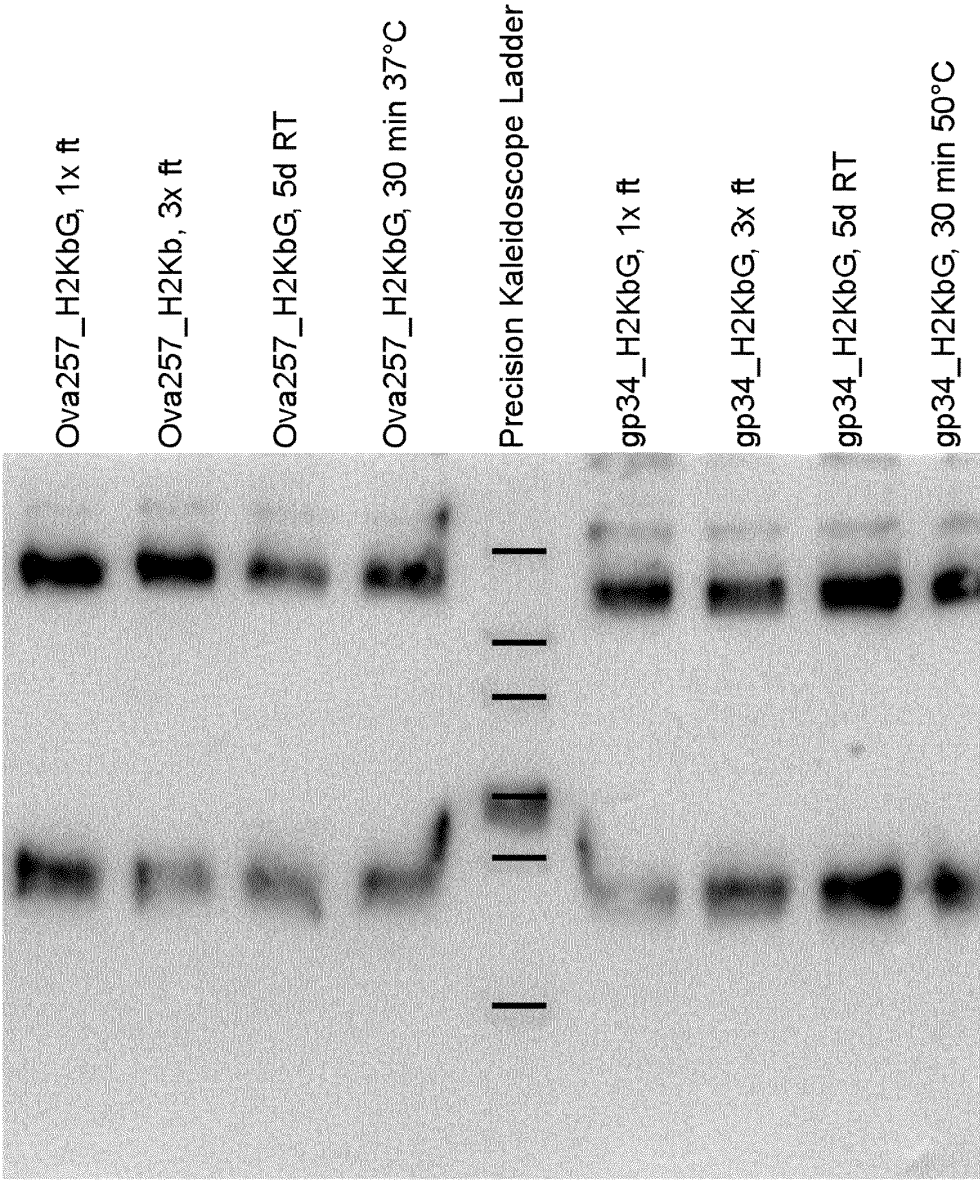


Figure 9, continued

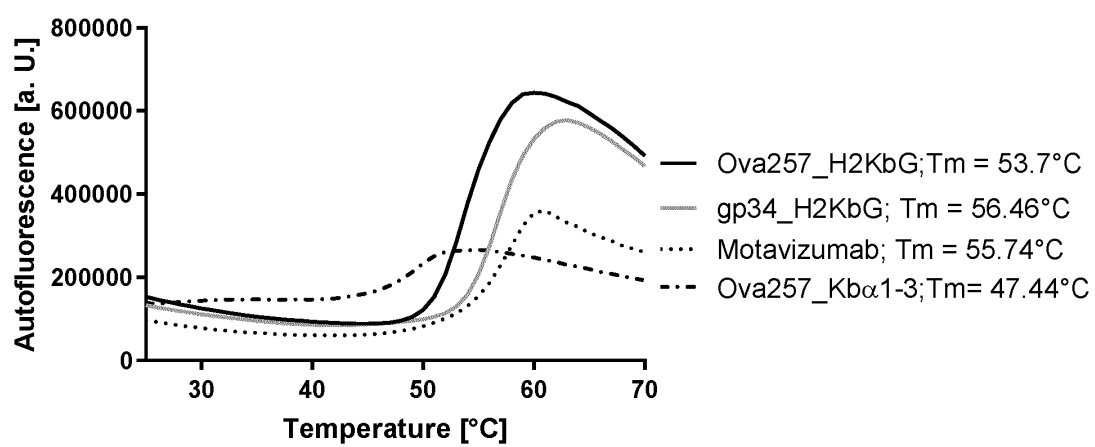
B



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Figure 10

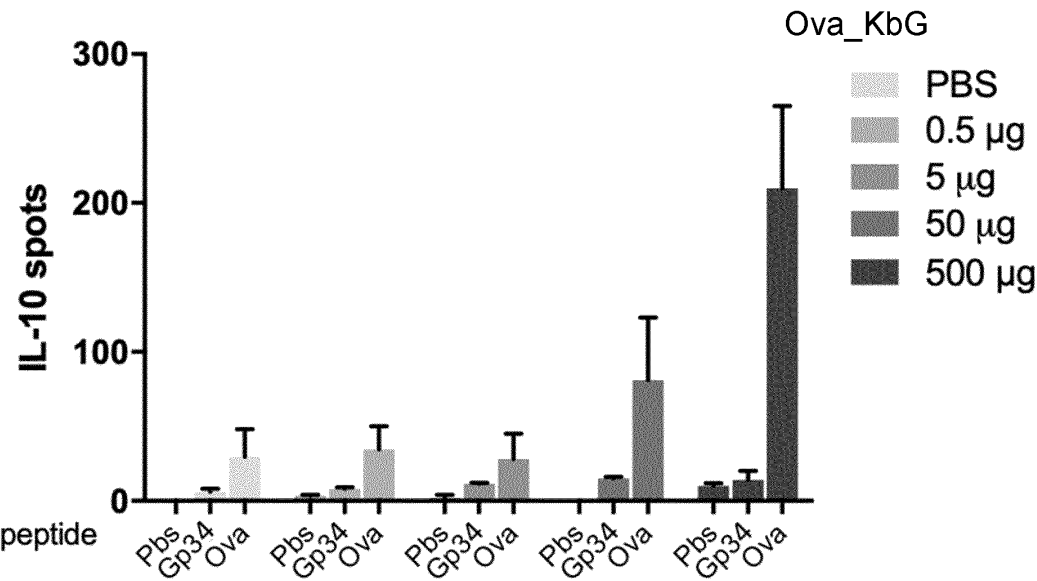
single-chain MHC Ib molecules are thermally stable



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Figure 11

single-chain MHC Ib molecules induce Treg in a dose-dependent manner

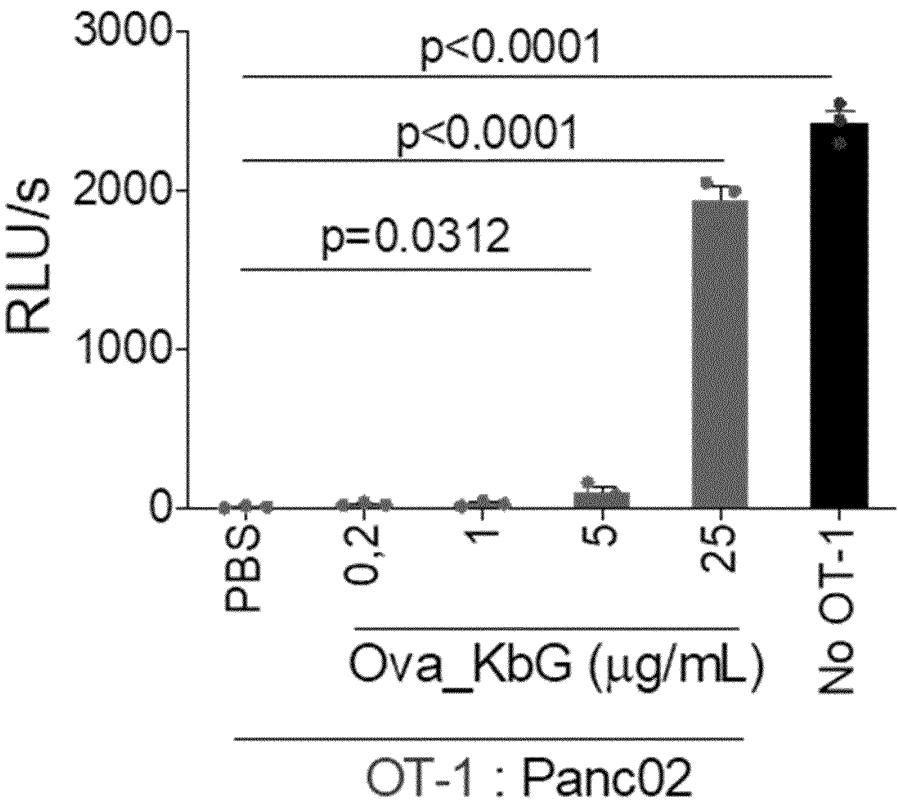


Mean and SD indicated

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Figure 12

Single-chain MHC Ib molecules inhibit T cell lysis in a dose-dependent manner



Mean and SD indicated.
One-way Anova with Tukey's post-hoc test.

Figure 13

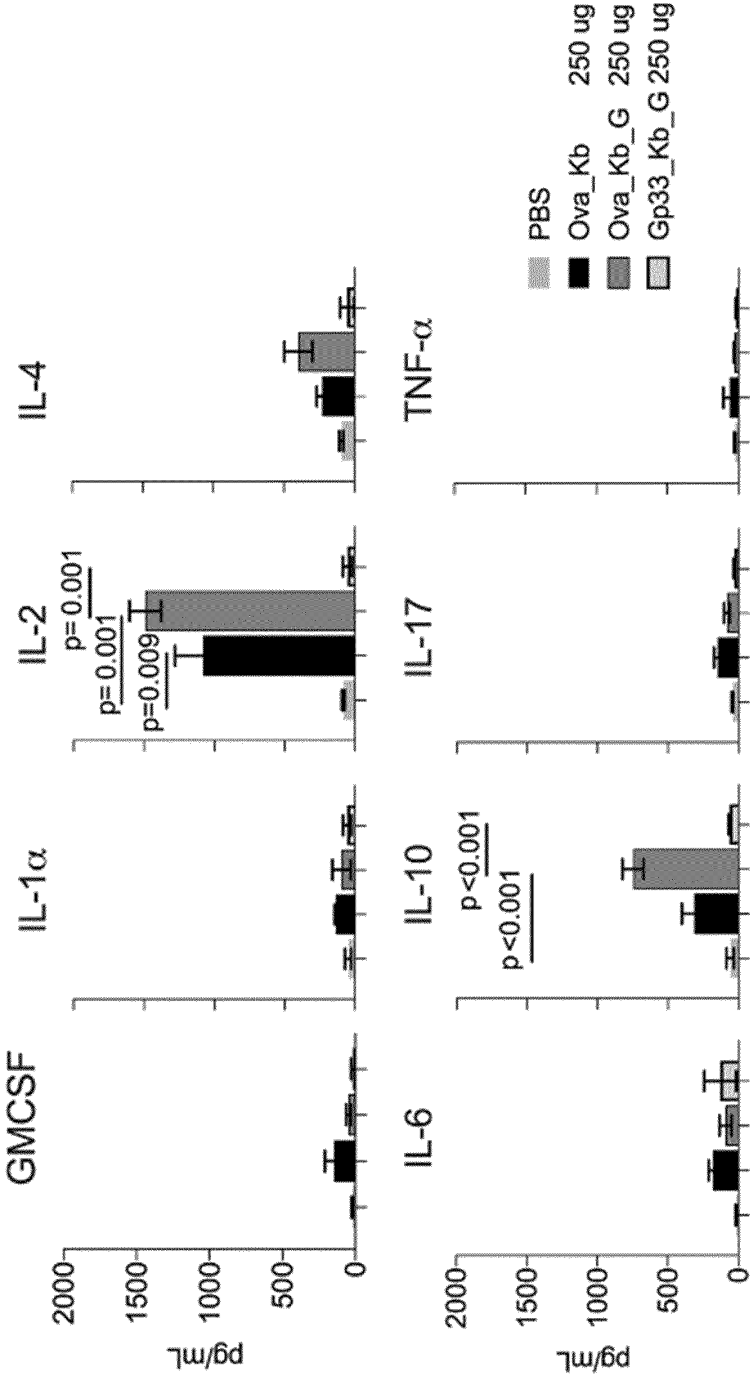


Figure 14

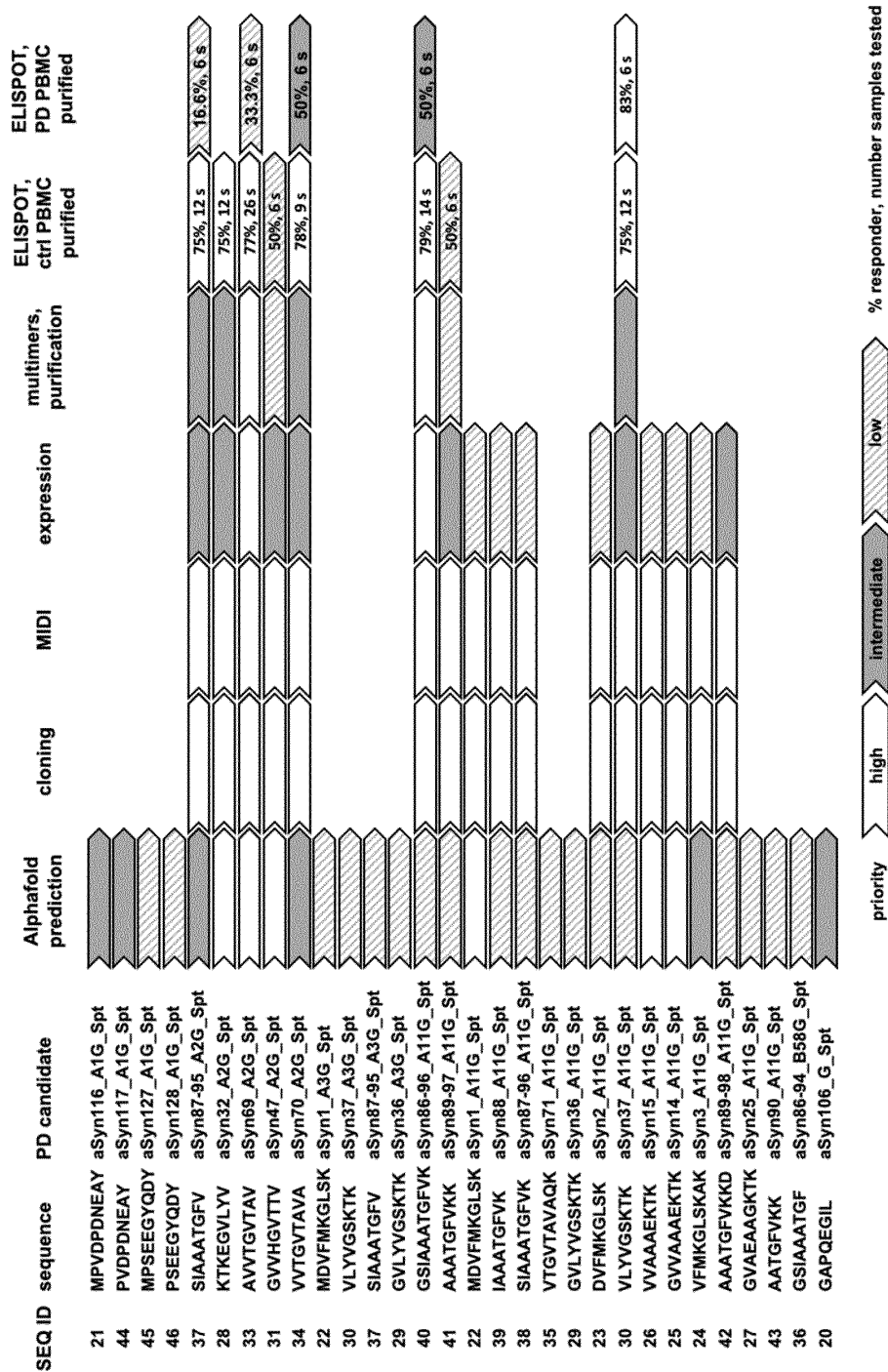


Figure 15

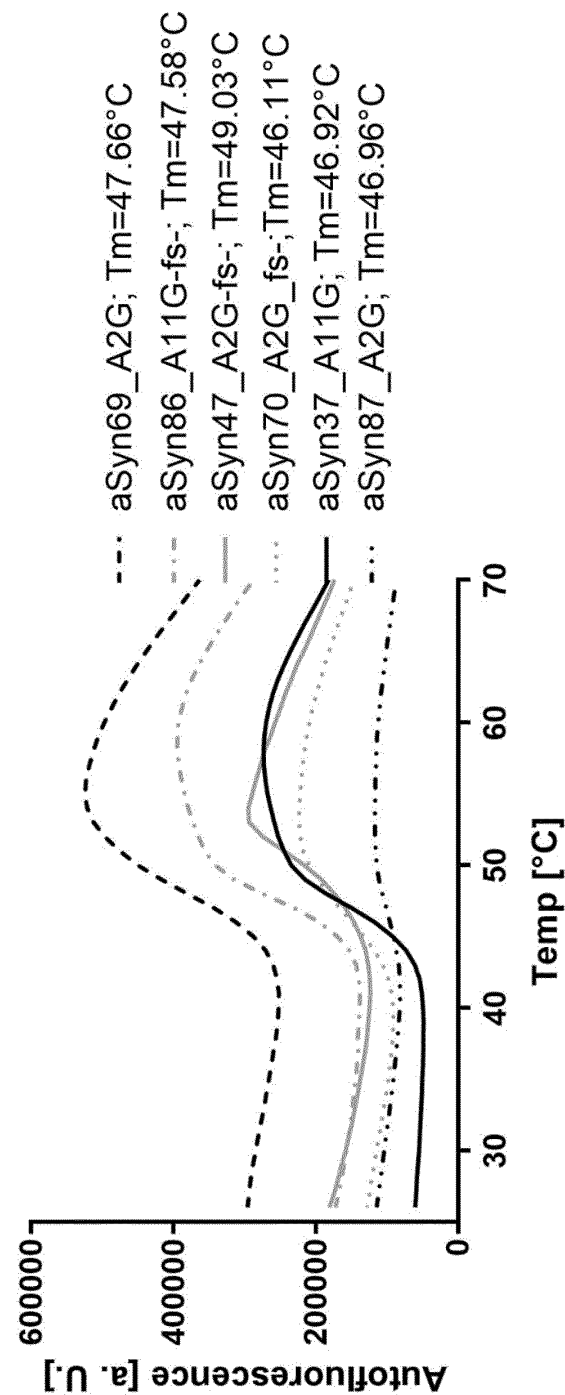


Figure 16

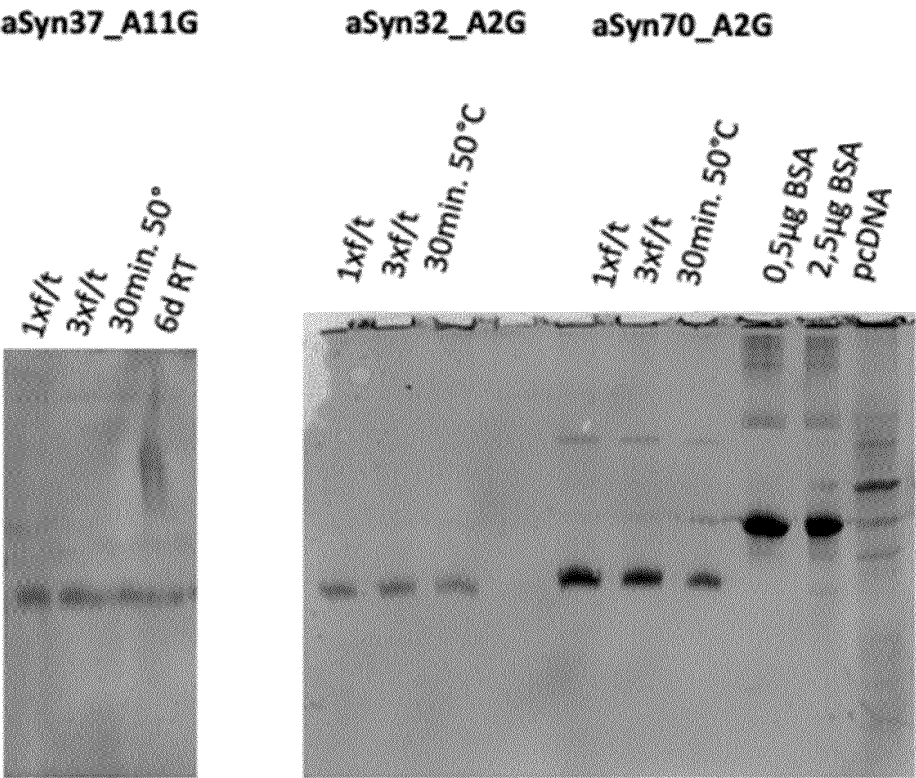


Figure 16, continued

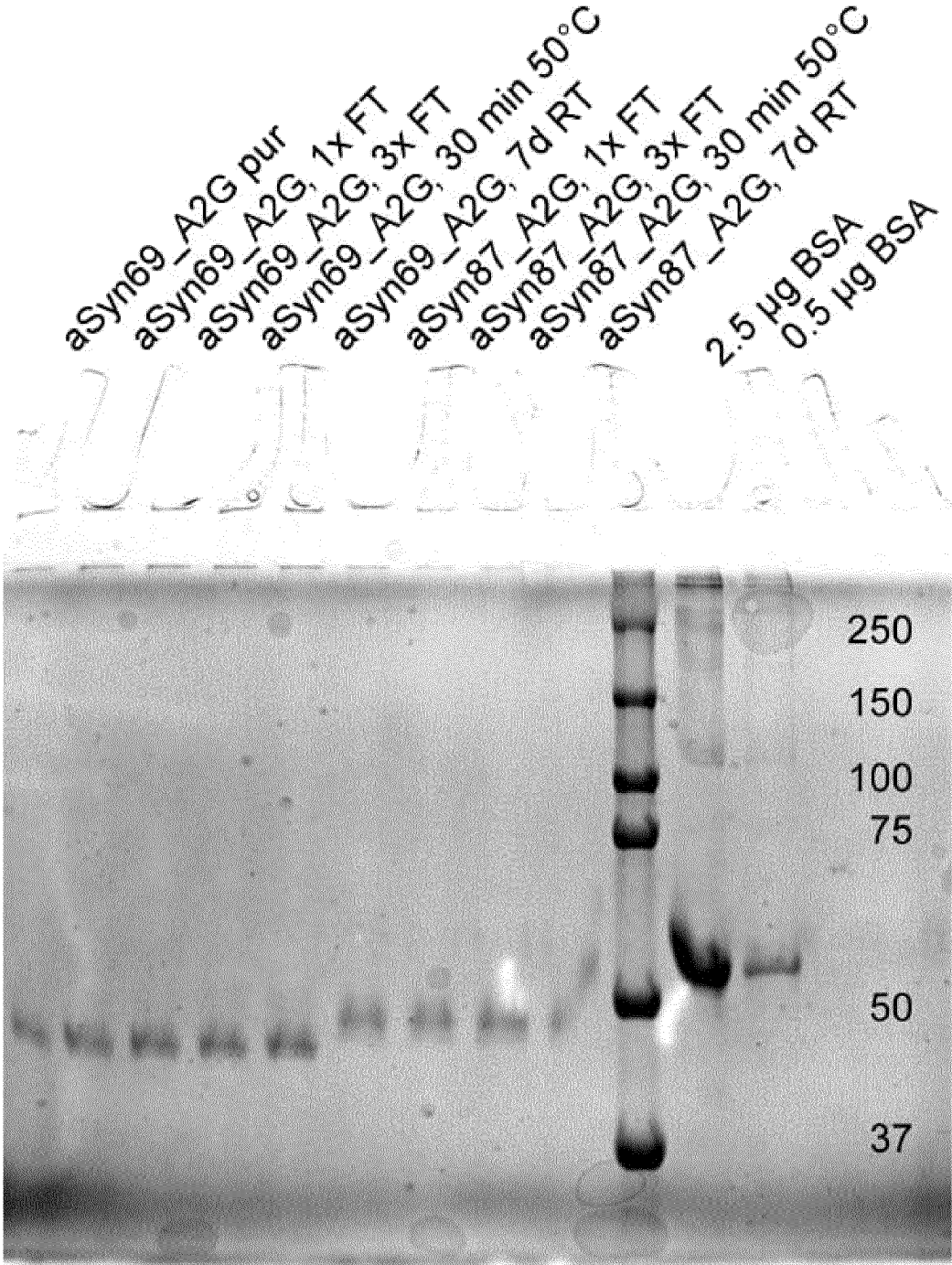


Figure 17

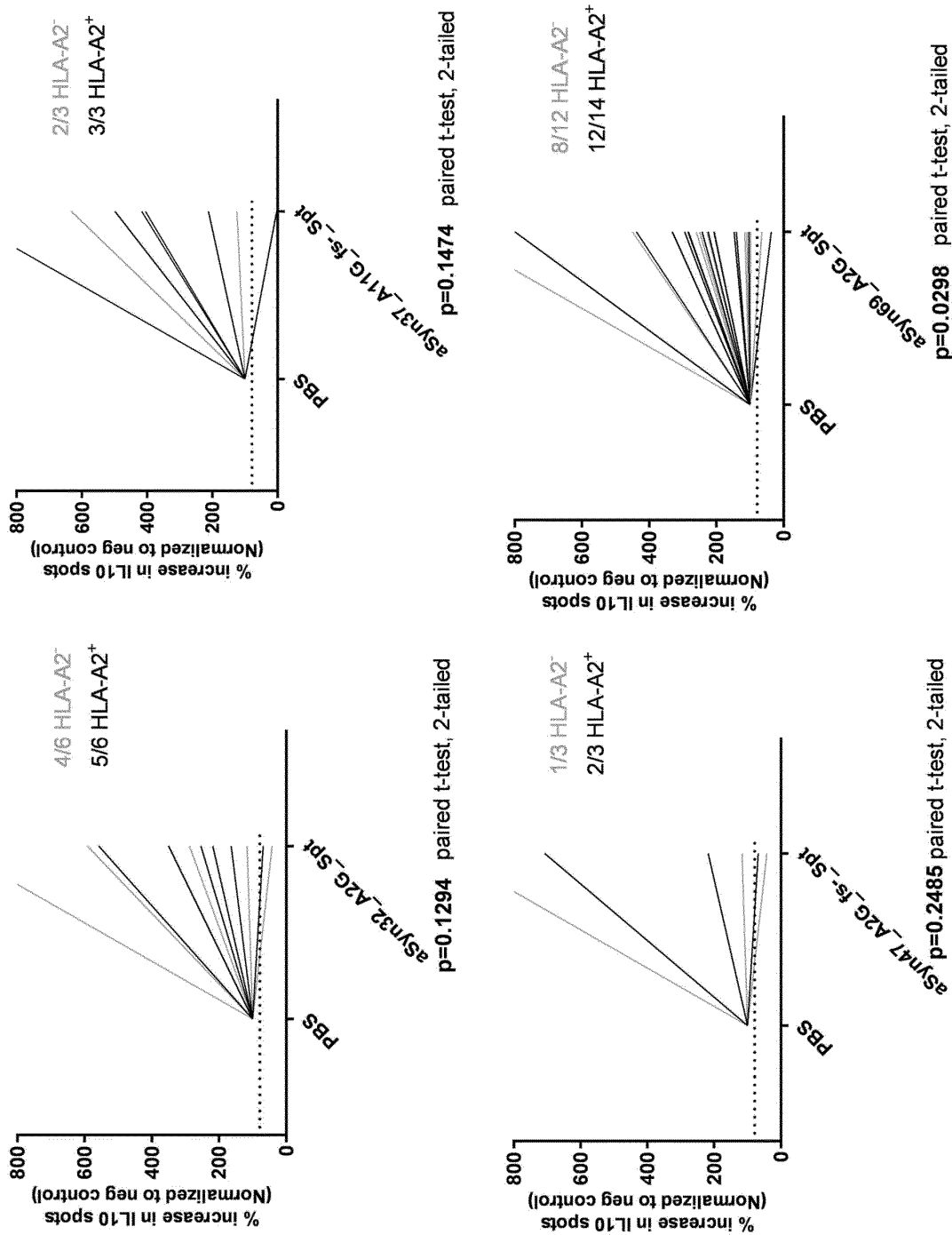


Figure 17, continued

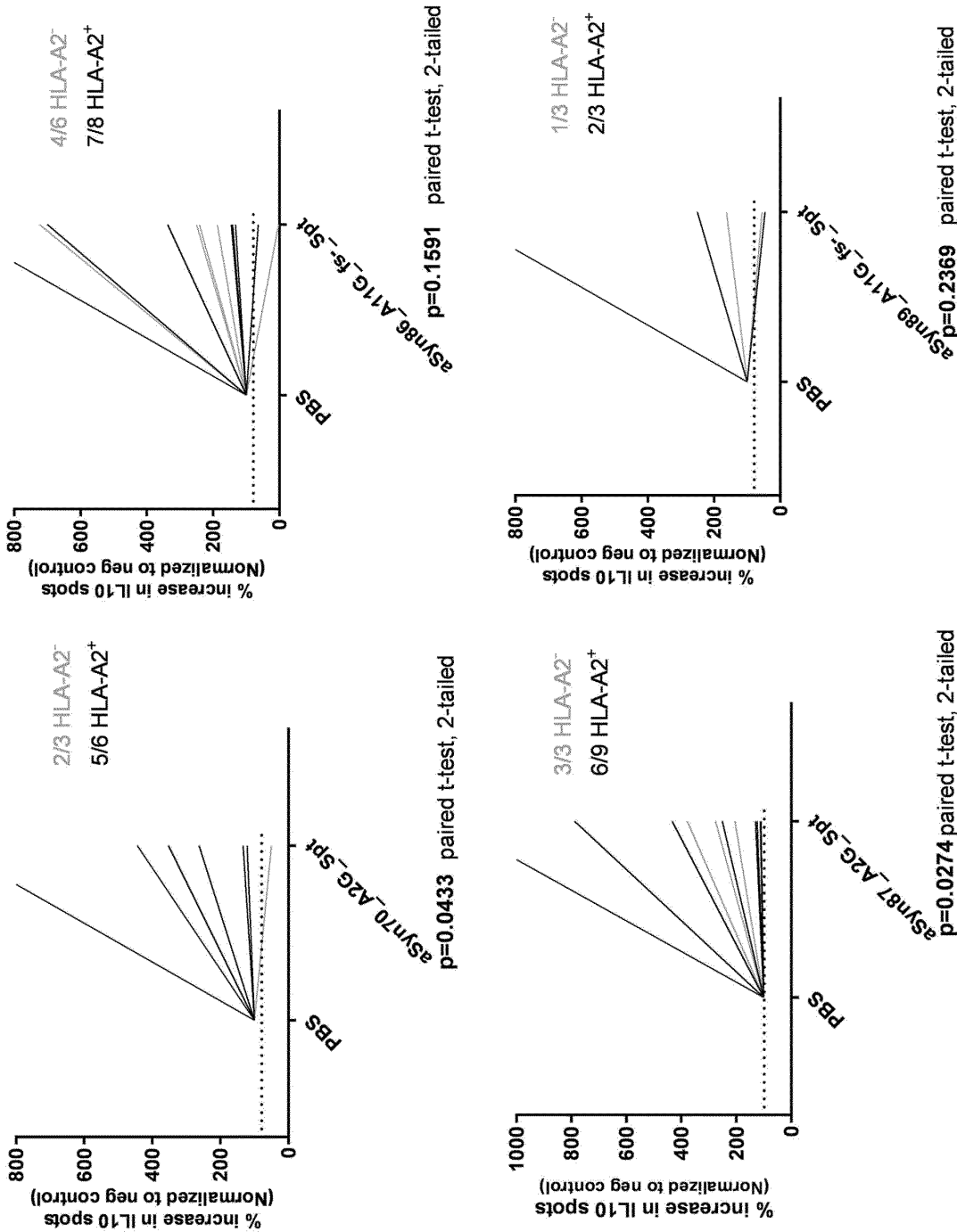


Figure 18

A

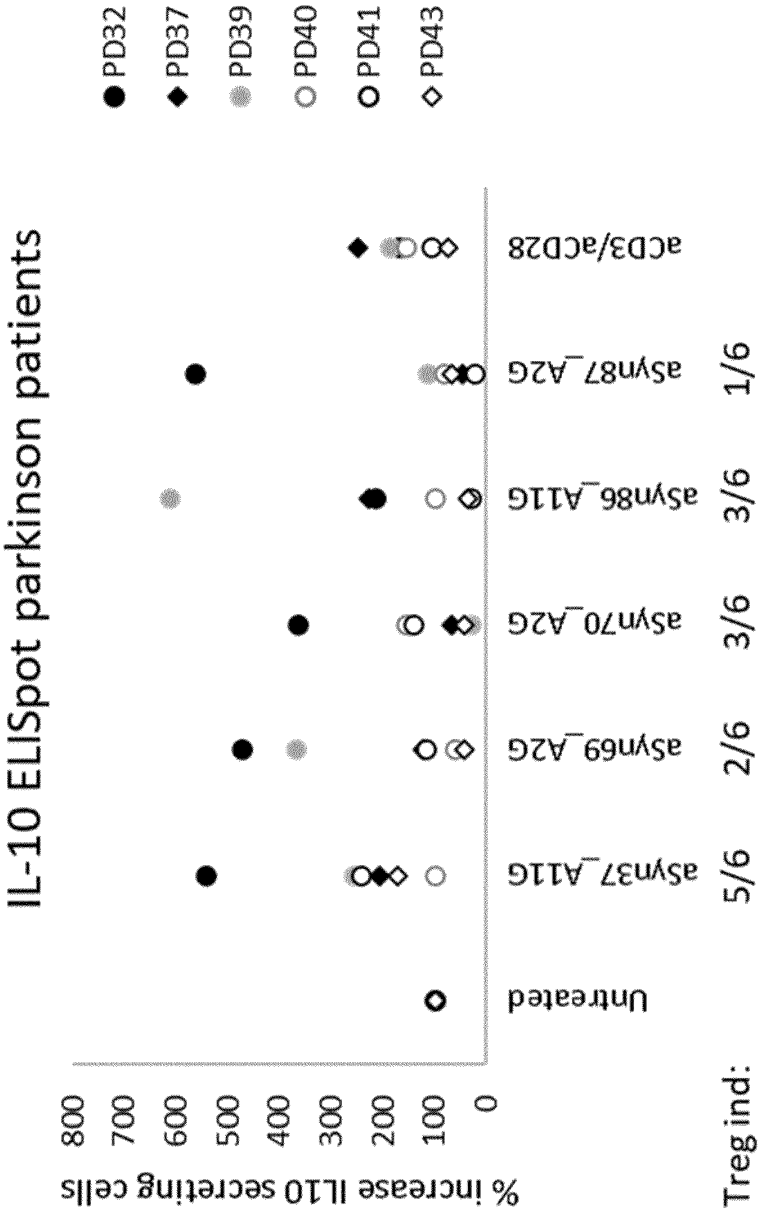


Figure 18, continued

B

