



Supplementary Figure 3. Effect of α -synuclein deficiency and GBA overexpression on susceptibility of GBA^{+L444P} mice to MPTP-induced gliosis. **a, c** Representative images of immunohistochemistry data for GFAP with low (scale bar, 500 μ m) and high magnification (scale bar, 50 μ m). **b, d** Intensities of GFAP positive signals in the SNpc of mice treated with saline or MPTP were quantified and shown as a graph. Error bars represent the mean \pm S.E.M (n = four mice per group). Two-way ANOVA was used to test for statistical analysis followed by *post-hoc* Bonferroni test for multiple group comparison. * $P < 0.05$, *** $P < 0.001$ vs. MPTP-treated WT or GBA^{+L444P} with AAV5-Con or MPTP-treated GBA^{+L444P} with AAV5-Con. n.s: not significant.