

Supplementary Figure 1. Lack of endogenous SP decreases microglial density in the SN in the aging mice. Microglia were stained with anti-Iba-1 antibody in the SN of both WT and $TAC1^{-/-}$ mice at the indicated age. The density of microglia in the SN was quantified by counting Iba-1-immunoreactive cells. Results are expressed as mean \pm SEM. **p< 0.01. n = 3 in each group at each time point with total 12 and 12 for WT and $TAC1^{-/-}$ mice, respectively.