

Supplemental Table S1. Numbers of mice used in this study

*Numbers in parentheses are individuals added for measurement of soluble and insoluble A β . **A β_{40} were not measured for one individual due to a shortage of the sample. ***Eighteen mice were used for the measurement of body weight and grip strength at 38-42 weeks of age due to death of two individuals.

Supplemental Table S2. Primers used for qPCR analysis

Genes	Sequence
Total AQP4	5'-AACCTCACCGCTGGCCATGGGCTCCTG-3' 5'-TACGGAAGACAATACTCTCCGAAGAGTC-3'
GAPDH	5'-ACTGGTGTCTCACCAACCATGGAGAAGGC-3' 5'-CATGAGGTCCACCACCCCTGTTGCTGTAGC-3'
GFAP	5'- CTCGGCACCTGAGGCAGAACGCTCCAAGATGAAAC-3' 5'- CTTAGACCGATAACCACCTCCTCTGTCTTGATG-3'
TREM2	5'- ACCTCTCCACCAGTTCTCCTGCTGCTGATCACAG-3' 5'- AGTACTTCTGCAGGACCTCAGCCTCTCGGCCCTG-3'
CX3CR1	5'-CGTGAGACTGGTGAGTGACTGGCACTCCTGCAG-3' 5'- CAATGAAGAAGAAGGCAGTCGTGAGCTTGCACATG-3'
IL1-β	5'-AGGCCTAATAGGCTCATCTGGGATCCTCTC-3' 5'- GTTCATCTCGGAGCCTGTAGTGCAGTTGTC-3'
IL6	5'- TTCTGGGACTGATGCTGGTGACAACCACG-3' 5'- AGGTAGCTATGGTACTCCAGAAGACCAGAG-3'
ADAM10	5'- AGCATGCTGCTAGTAGTGGCCTGAGCTCCTGAG-3' 5'- GATGCCCTGTGTTCAATGACTTCTTGCACATCTG-3'
BACE1	5'- AGAGGCAGCTTGTGGAGATGGTGGACAACCTGAG-3' 5'- ATGTTGGGAATGTGGGTCTGCTTCACCAGGGAGTC-3'
NEP	5'- CAGCCCCATTCTCAGTGCTCAGCAATCCAACTC-3' 5'- ATGTTCACTATCTTGTGAAGATCACCAAACCCGAC-3'
IDE	5'- CACCCCACCTACCTGGAGAGCAGAGTAGAAGCCTTC-3' 5'- CAGTCATGTTGTGAATCACTTCAGGTTGTGGCAAG-3'