Immune Reactivity of Amyloid Deposits in the 5XFAD mouse on the B6SJL and congeneric C57BL/6J genetic backgrounds. A) Parasagittal serial sections of brains from 2, 4, 6 and 9 month old transgenic 5XFAD mice on both C57BL/6J (Stock 34848) and B6SJL (Stock 34840) genetic backgrounds were stained with an antibody recognizing Aβ40 and B) Aβ42. Representative staining is shown here. C-D) Quantitation of Aβ40 and Aβ42 positive deposits was performed using CellProfiler (Broad Institute, Cambridge, MA) and total counts were normalized per mm² of brain tissue analyzed. Data are represented as mean ± std dev for 5 representative animals counted per strain and timepoint. While the B6SJL-5XFAD animal trended towards higher levels, pathogenic Aβ42 positive staining was significantly higher only at the 9 month timepoint compared to the congeneric C57BL/6J-5XFAD (T-Test).