eFigure 2: HA-specific CTLs, but not ovalbumin-specific CTLs, induce in vitro loss of HA-expressing BBB-ECs and in vivo neuroinflammation

(A) BBB-ECs from EC-HA+ or EC-HA- mice were cultured alone or in presence of 8000 HA-specific CTLs or ovalbumin-specific OT-I CTLs. After 24h, BBB-ECs were fixed and stained with DAPI and anti-claudin-5 antibody. The 100% value was set from the number of nuclei in the BBB-ECs from EC-HA- mice cultured alone. Data represent the mean +/- SEM of 2 independent experiments.

(B) Motor performance was assessed by Rotarod of EC-HA- or EC-HA+ mice after adoptive transfer of 10^7 HA-specific or ovalbumin-specific CTLs. The 100% was set from the individual motor performance at day 0, prior to CTL transfer. Data represent the mean +/- SEM of 6 mice per group from 2 independent experiments. Statistical analysis was performed using two-way ANOVA.

(C) Numbers of transferred CD8 T cells in the brain (C.a) and spleen (C.b) of recipient mice, 7 days after adoptive transfer of CTLs. Data represent the mean +/- SEM of 6 mice per group from 2 independent experiments and the p-values were determined using one-way ANOVA, followed by Sidak’s correction for multiple comparisons.