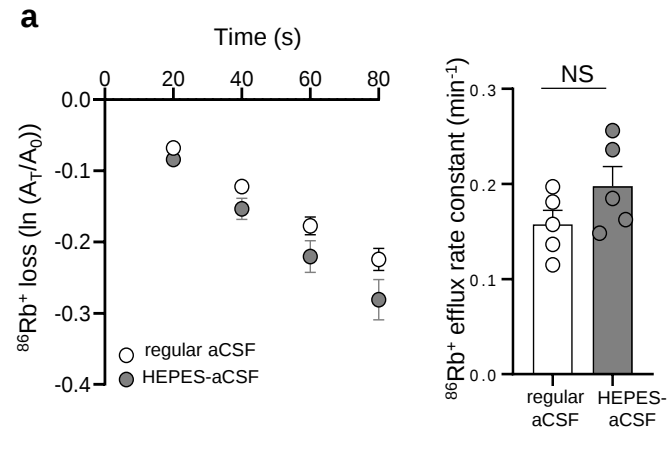
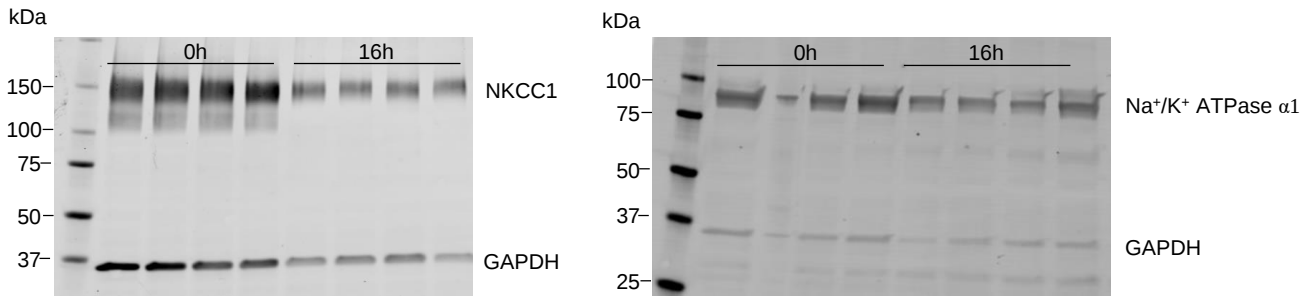


Additional file 1



a. $^{86}\text{Rb}^+$ efflux from *ex vivo* rat choroid plexus conducted in regular aCSF versus HEPES-buffered aCSF (see Methods). The efflux rate constants ($0.16 \pm 0.03 \text{ min}^{-1}$ in aCSF versus $0.20 \pm 0.05 \text{ min}^{-1}$ in HEPES-aCSF, $n = 5$ of each) were not statistically different, $P = 0.16$, Student's *t*-test. NS; not significant.

b



b. Western blot of choroid plexus acutely isolated or after 16h tissue culturing, stained with anti-NKCC1 or anti- Na^+/K^+ -ATPase antibodies with anti-GAPDH as loading control, $n = 4$.