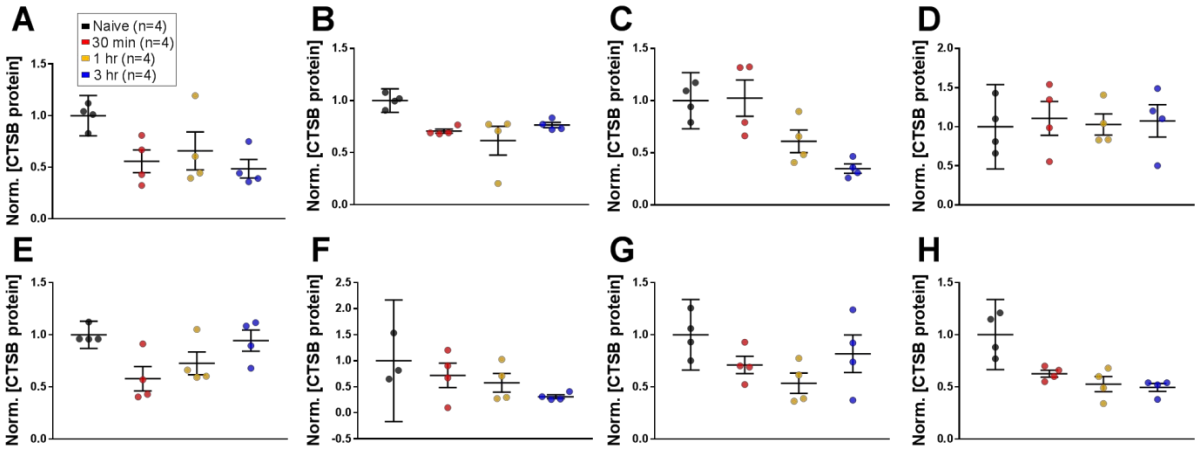
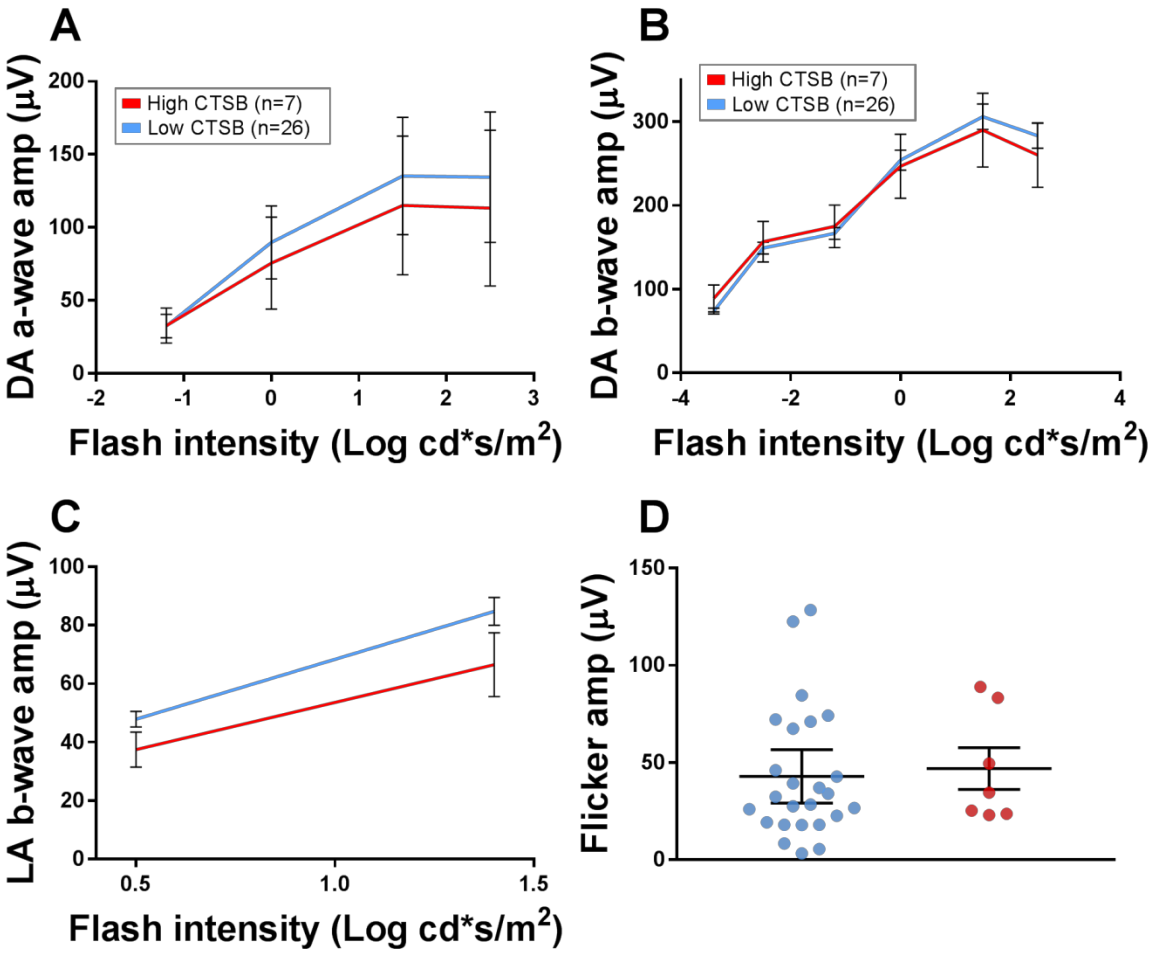
Low-intensity exercise protects retinal function, Mees et al.

Supplementary Information



Supplementary Figure 1. CTSB protein levels did not increase at any timepoint in any tissue following medium intensity exercise.

CTSB levels were measured in BALB/c mice after 1 week (**A-D**) and 3 weeks (**E-H**) of exercise (10 m/min) in calf muscle (**A, E**), serum (**B, F**), brain (**C, G**) and retina (**D, H**) at 30 minutes, 1 hour, and 3 hours following the last exercise session. Data are depicted as mean ± s.e.m. and normalized to inactive+LIRD. Circles represent measurements for individual animals.



Supplementary Figure 2. Calf muscle CTSB protein levels do not correlate with retinal function

Active animals of any exercise intensity were grouped based on CTSB level. Animals with a calf muscle CTSB level 10% higher than the max inactive+LIRD animal were classified as "high CTSB" and compared to those below the threshold, "low CTSB". None of the ERG parameters of scotopic a-wave (**A**), scotopic b-wave (**B**), photopic b-wave (**C**) or flicker (**D**) showed any difference in amplitude between the two groups. Data are depicted as mean ± s.e.m. Circles represent measurements for individual animals.