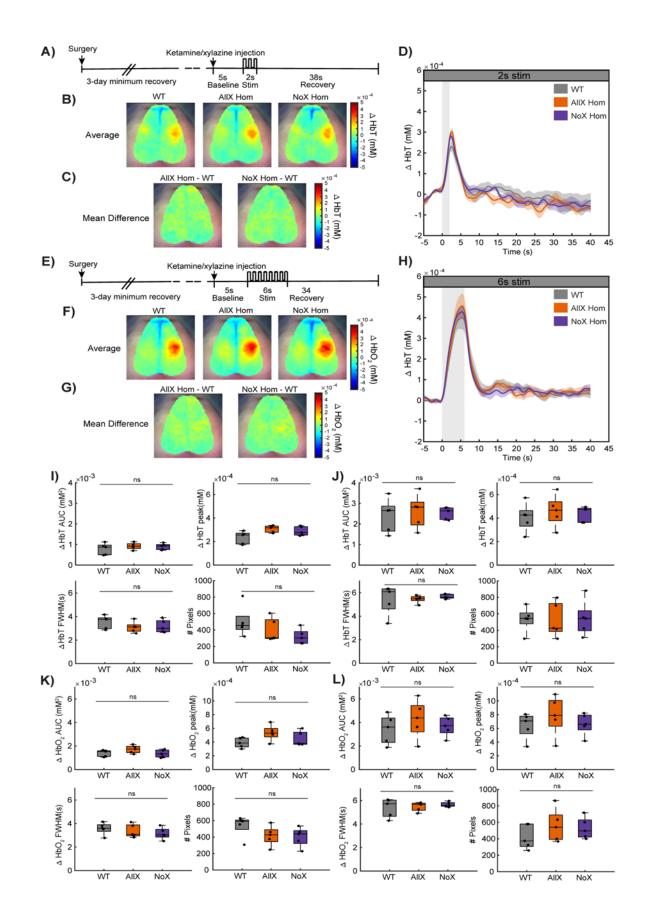
SUPPLEMENTARY MATERIAL

Evaluation of gliovascular functions of Aqp4 readthrough isoforms

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Supplemental Figure 4. Hemodynamic response to somatosensory stimuli is not altered in AllX^{Hom} or NoX^{Hom} mice. A) Schematic of 2s left forepaw electrical stimulation paradigm. B) Mean total hemoglobin (HbT) response maps to 2s forepaw stimulus for WT (n=5 mice, n=15 runs), AllX^{Hom} (n=5 mice, 14 runs) and NoX^{Hom} (n=5 mice,n=15 runs) mice comparing the time period 1-6s post-stimuli onset to baseline. C) Mean difference between AllX and WT maps (AllX^{Hom}-WT) and between NoX^{Hom} and WT maps

(NoX^{Hom}-WT). **D**) Mean HbT response time courses for the same groups. Time courses were extracted from pixels that reached \geq 50% of the max peak response in each group. *Shading depicts SEM*. **E**) Schematic of 6s left forepaw electrical stimulation paradigm. **F**) Mean HbT response maps to 6s forepaw stimulus for WT (n=5 mice, 25 runs, AllX (n=5 mice, 20 runs) and NoX (n=5 mice, 20 runs) mice comparing the time period 0-6s post-stimuli onset to baseline. **G**) Mean difference between AllX and WT maps (AllX^{Hom}-WT) and between NoX and WT maps (NoX^{Hom}-WT). **H**) Mean HbT response time courses for the same groups. Time courses were extracted from pixels that reached \geq 50% of the peak response in each group. *Shading depicts SEM* **I**) Analysis of HbT response parameters to 2s stim, including area under the curve (AUC), peak response amplitudes, full-width half-maximum (FWHM), and number of pixels reached \geq 50% max response amplitude. **J**) Analysis of HbT response parameters to 6s stim. **K**) Analysis of oxyhemoglobin (HbO₂) response parameters to 2s stim. L) Analysis of HbO₂ response parameters to 6s stim. ns = not significant by one-way ANOVA.