



S2 Fig. Effect of hAAT (80 mg/kg/day; i.p.) treatment on kidney fibrosis after I/R injury (IRI). **A.** Score of fibrotic area in post-ischemic kidneys at day 8 and 15 post-op. Quantification of collagen-stained area (μm^2) was performed in non-overlapping fields ($\times 200$ magnification) throughout 2 different regions of the kidney using the image software KS 400. Two-way analysis of variance (ANOVA) followed by *Bonferroni* post-test. **B-E.** Picro-Sirius Red-stained frontal sections of mouse kidney. **B, D** representative images of ischemic kidney of a control mouse at different time-points after IRI. **C, E** representative images of ischemic kidney of a mouse treated with hAAT at different time-points after IRI. OC=outer cortex; CMJ=cortico-medullary junction. Scale bar = 100 μm (original magnification $\times 100$). **F.** Relative mRNA expression of col-1 α , col-4, MMP-9 and TGF- β in post-ischemic kidneys at day 8 and 15 post-op. Relative gene expression expressed as Rq (fold change) = $2^{-\Delta\Delta\text{Ct}}$. \blacksquare = control group treated with hAlb. \square = group treated with hAAT. Mann-Whitney U test (two-tailed) ($n=6-8$ animals per group).