

# Serum Amyloid A3 Promoter-Luciferase Reporter Mice Are Useful for Early Drug-Induced Nephrotoxicity Detection

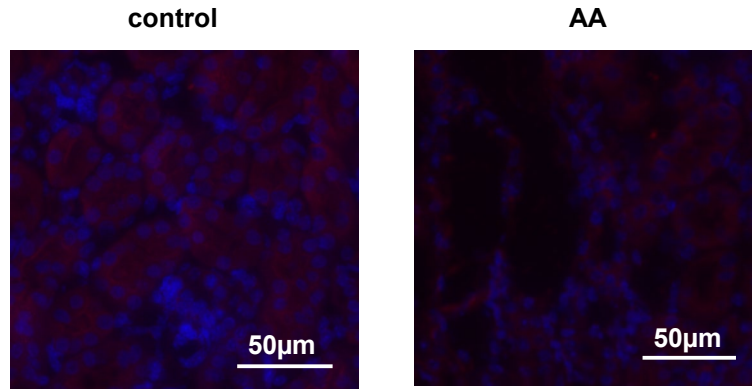
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## **Supplementary figures:**

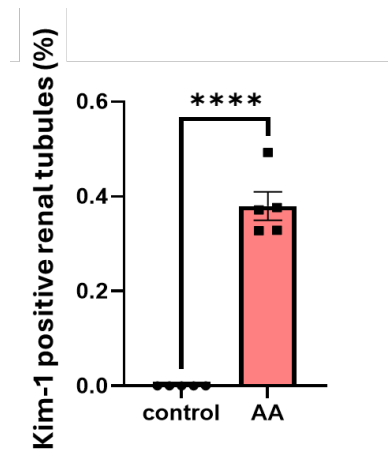
**Supplementary figure S1**

**Supplementary figure S2**

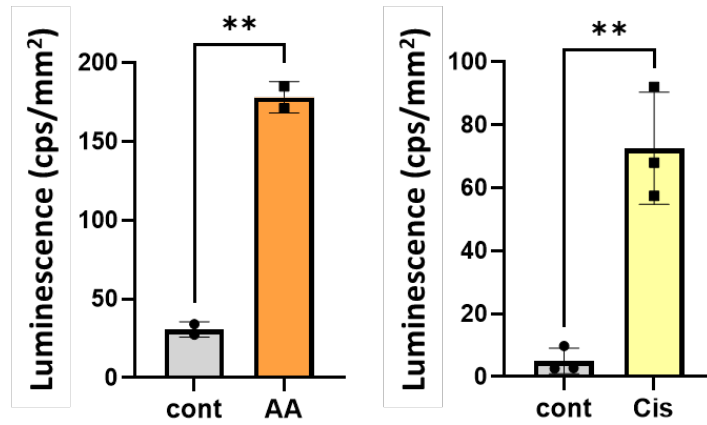
A



B



**Figure S1.** (A), Representative images of injured renal tubules from kidney stained without primary Kim1 antibody. Kidney tissues were fixed with 4% paraformaldehyde. Paraffin sections were incubated without primary KIM-1 antibody overnight at 4 °C, followed by antibodies incubation with anti-goat IgG Alexa Fluor 594 (1:500; Invitrogen) at RT for 1 h and further counterstained with 4',6-diamidino-2-phenylindole (DAPI) for 30 min at RT (blue). All images were captured by Olympus BX53 microscope (Olympus, Tokyo, Japan) and analyzed by Nikon Elements imaging software (Nikon, Tokyo, Japan). (B), The quantification of Kim-1 positive renal tubule numbers. Kidney tissues were fixed with 4% paraformaldehyde. Paraffin sections were incubated with KIM-1 antibody overnight at 4 °C, followed by antibodies incubation with anti-goat IgG Alexa Fluor 594 (1:500; Invitrogen) at RT for 1 h and further counterstained with DAPI for 30 min at RT. All images were captured by Olympus BX53 microscope (Olympus) and analyzed by Nikon Elements imaging software (Nikon). The number of Kim-1 positive renal tubule was determined manually by blind counting under the microscope. All values are expressed as mean  $\pm$  S.E. Student's *t*-test, \*\*\*\* $p$  < 0.0001. AA = AA nephropathy.



**Figure S2.** Male *Saa3* promoter-luc mice were injected intraperitoneally with D-luciferin (150 mg/kg body weight, Promega) and anesthetized with isoflurane. *Saa3* promoter-luc were imaged by NightOWL II Imaging Systems LB983 (Berthold Technologies, Bad Wildbad, Germany). Photons emitted from tissues were analyzed using Indigo in vivo image software (Berthold). Signal intensity was quantified as the sum of all detected photon counts per second and presented as count/sec (cps)/mm<sup>2</sup>. All values are expressed as mean  $\pm$  S.E. Student's *t*-test, \*\**p* < 0.01. cont = control, AA = AA nephropathy, Cis = cisplatin nephropathy.