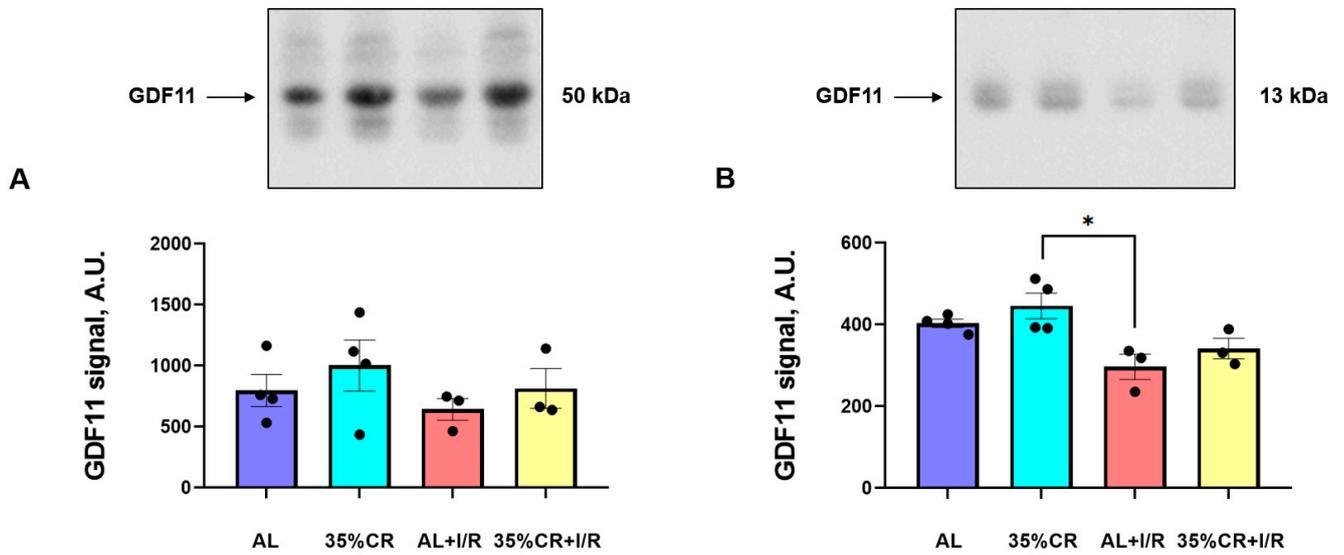
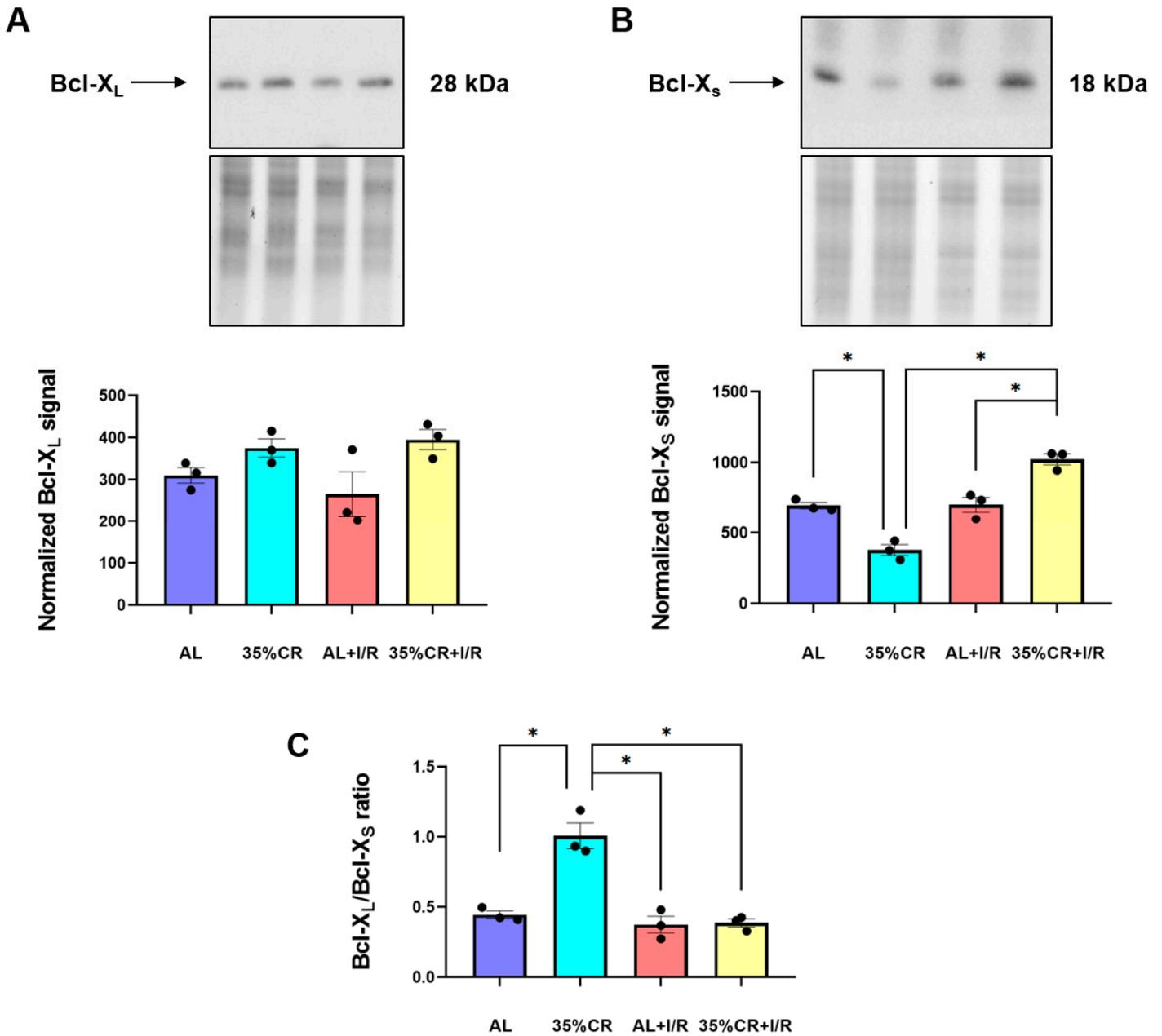


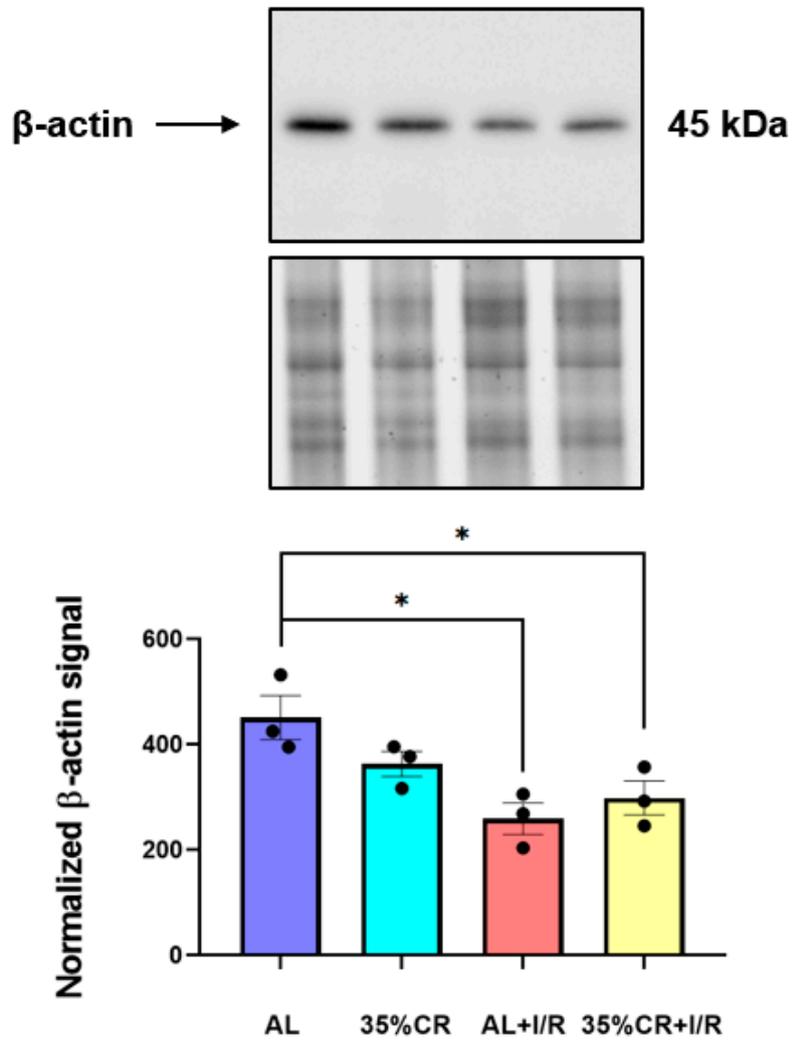
Supplementary Figures



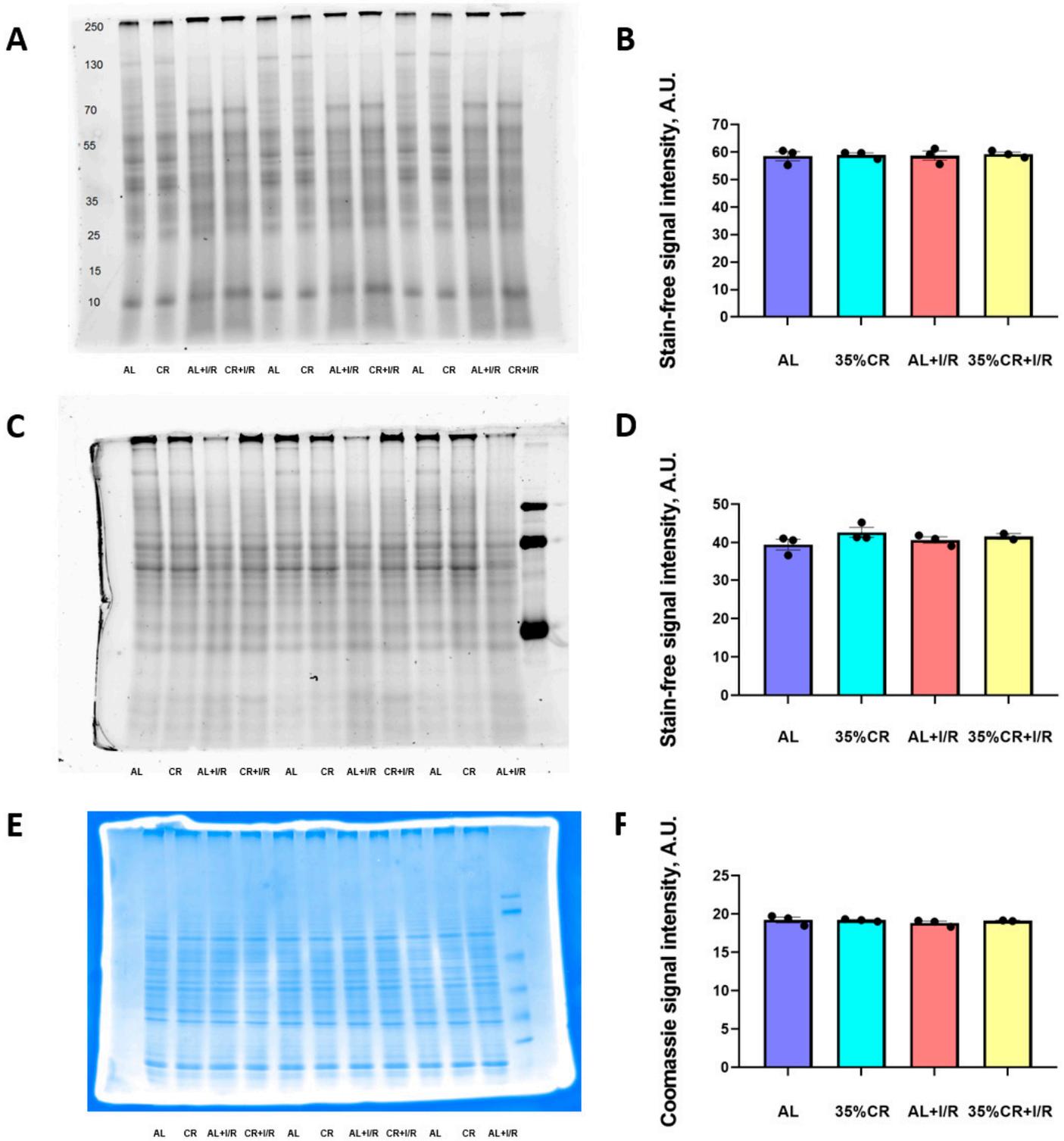
Supplementary Figure S1. The level of GDF11 in serum. **(A)** The level of precursor form of GDF11 in serum of OXYS rats on 35% CR or AL diet, before and 48 h after renal I/R ($n = 4$ for AL group, $n = 4$ for 35% CR group, $n = 3$ for AL+I/R group, $n = 3$ for 35% CR+I/R group). **(B)** The level of mature form of GDF11 in serum of OXYS rats on 35% CR or AL diet, before and 48 h after renal I/R ($n = 4$ for AL group, $n = 4$ for 35% CR group, $n = 3$ for AL+I/R group, $n = 3$ for 35% CR+I/R group). * $p < 0.05$ (one-way ANOVA).



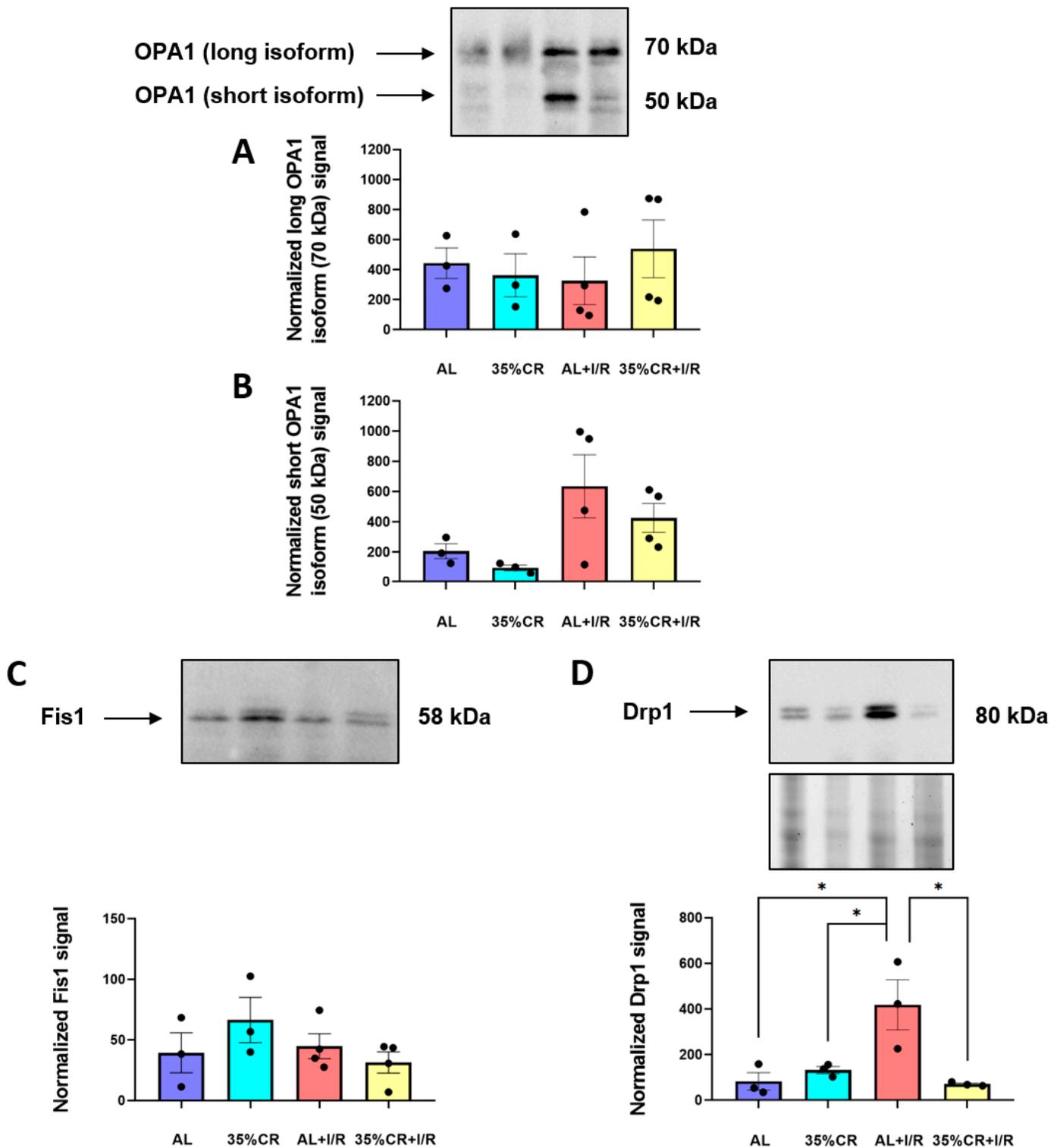
Supplementary Figure S2. The level of anti- and pro-apoptotic proteins in kidney homogenates. **(A)** Bcl- X_L levels in kidney homogenates of OXY rats on 35% CR or AL diet, before and 48 h after renal I/R ($n = 3$ for AL group, $n = 3$ for 35% CR group, $n = 3$ for AL+I/R group, $n = 3$ for 35% CR+I/R group). **(B)** Bcl- X_S levels in kidney homogenates of OXY rats on 35% CR or AL diet, before and 48 h after renal I/R ($n = 3$ for AL group, $n = 3$ for 35% CR group, $n = 3$ for AL+I/R group, $n = 3$ for 35% CR+I/R group). **(C)** Bcl- X_L /Bcl- X_S ratio in kidney homogenates of OXY rats on 35% CR or AL diet, before and 48 h after renal I/R ($n = 3$ for AL group, $n = 3$ for 35% CR group, $n = 3$ for AL+I/R group, $n = 3$ for 35% CR+I/R group). Below the blot image of the target protein, the corresponding total protein loading estimated by Stain-free imaging technique is presented. * $p < 0.05$ (one-way ANOVA).



Supplementary Figure S3. The level of housekeeping protein β -actin in kidney homogenates of OXYS rats on 35% CR or AL diet, before and 48 h after renal I/R ($n = 3$ for AL group, $n = 3$ for 35% CR group, $n = 3$ for AL+I/R group, $n = 3$ for 35% CR+I/R group). Below the blot image of the target protein, the corresponding total protein loading estimated by Stain-free imaging technique is presented. * $p < 0.05$ (one-way ANOVA).



Supplementary Figure S4. Total protein normalization. (A,B) The example of Stain-free imaging of kidney homogenate samples ($n = 3$ for AL group, $n = 3$ for 35% CR group, $n = 3$ for AL+I/R group, $n = 3$ for 35% CR+I/R group). (C,D) The example of Stain-free imaging of isolated mitochondria samples ($n = 3$ for AL group, $n = 3$ for 35% CR group, $n = 3$ for AL+I/R group, $n = 2$ for 35% CR+I/R group). (E,F) Coomassie staining of kidney homogenate samples ($n = 3$ for AL group, $n = 3$ for 35% CR group, $n = 3$ for AL+I/R group, $n = 2$ for 35% CR+I/R group).



Supplementary Figure S5. The level of proteins participating in mitochondrial dynamics. **(A)** The level of long OPA1 isoform in kidney homogenates of intact OXYS rats and 48 h after renal I/R, in OXYS rats kept on AL or CR diet ($n = 3$ for AL group, $n = 3$ for 35% CR group, $n = 4$ for AL+I/R group, $n = 4$ for 35% CR+I/R group). **(B)** The level of short OPA1 isoform in kidney homogenates of intact OXYS rats and 48 h after renal I/R, in OXYS rats kept on AL or CR diet ($n = 3$ for AL group, $n = 3$ for 35% CR group, $n = 4$ for AL+I/R group, $n = 4$ for 35% CR+I/R group). **(C)** The level of Fis1 in isolated kidney mitochondria of intact OXYS rats and 48 h after renal I/R, in OXYS rats kept on AL or CR diet ($n = 3$ for AL group, $n = 3$ for 35% CR group, $n = 4$ for AL+I/R group, $n = 4$ for 35% CR+I/R group). **(D)** The level of Drp1 in isolated kidney mitochondria of intact OXYS rats and 48 h after renal I/R, in OXYS rats kept on AL or CR diet ($n = 3$ for AL group, $n = 3$ for 35% CR group, $n = 3$ for AL+I/R group, $n = 3$ for 35% CR+I/R group). * $p < 0.05$ (one-way ANOVA). Below the blot image of the target protein, the corresponding total protein loading estimated by Stain-free imaging technique is presented (D).