

Spatiotemporal expression of HMGB2 regulates cell proliferation and hepatocyte size during liver regeneration

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Running title: The role of HMGB2 during liver regeneration

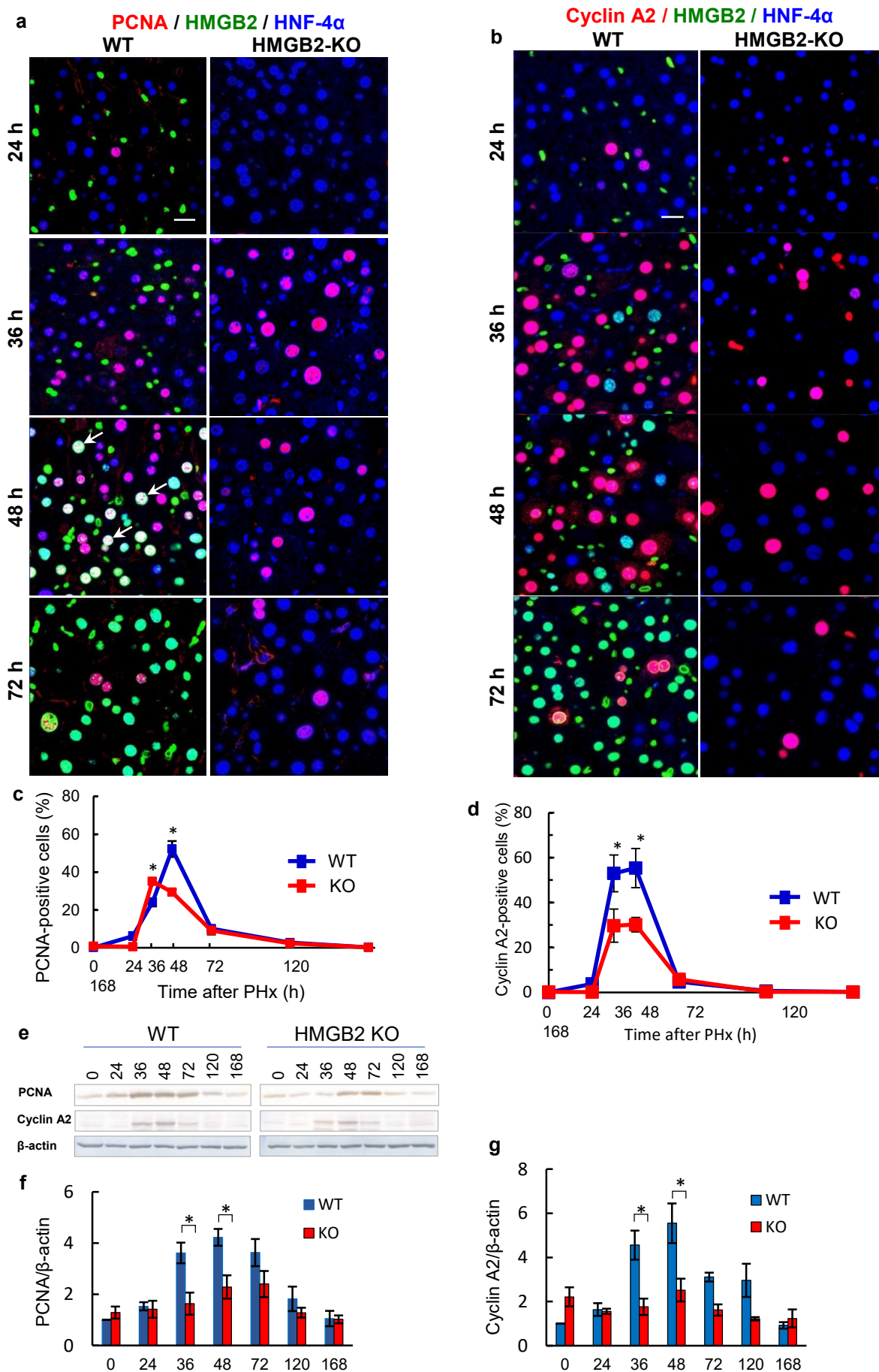
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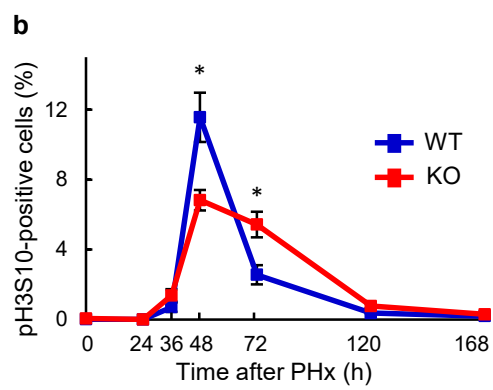
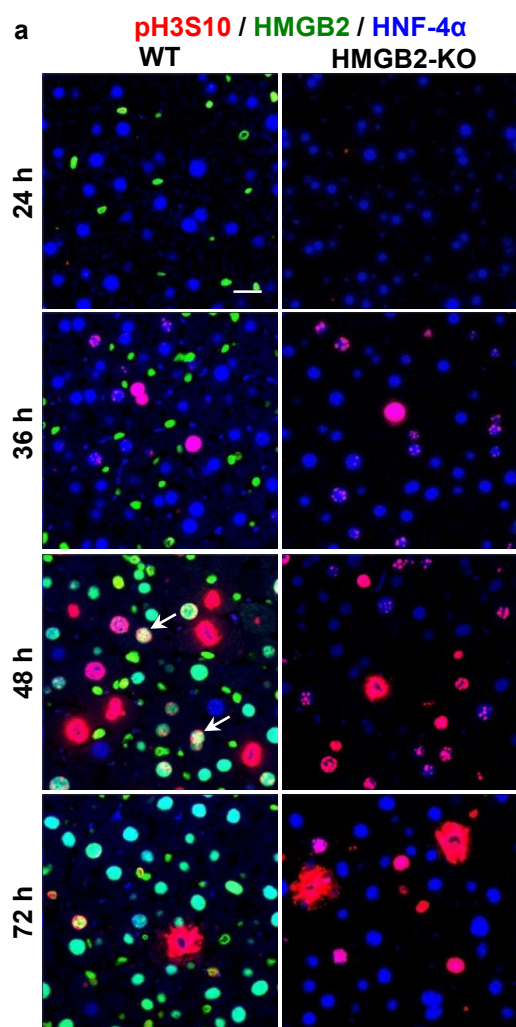
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Supplementary figure S1

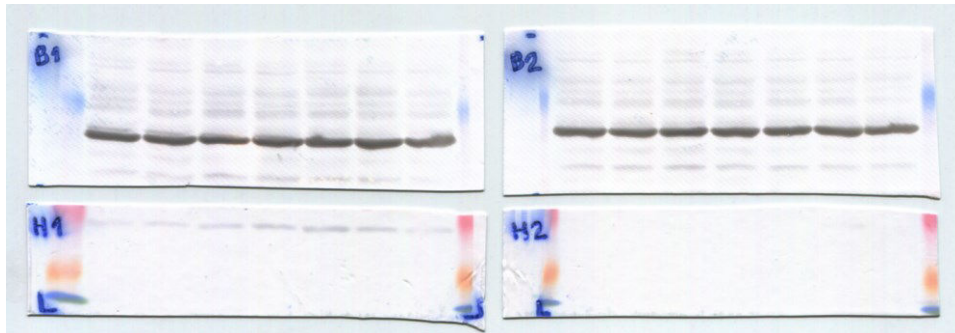


Supplementary figure S2

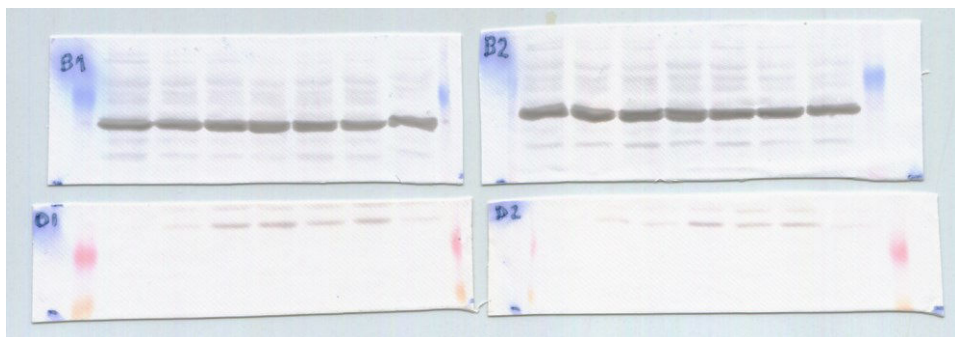


Supplementary figure S3

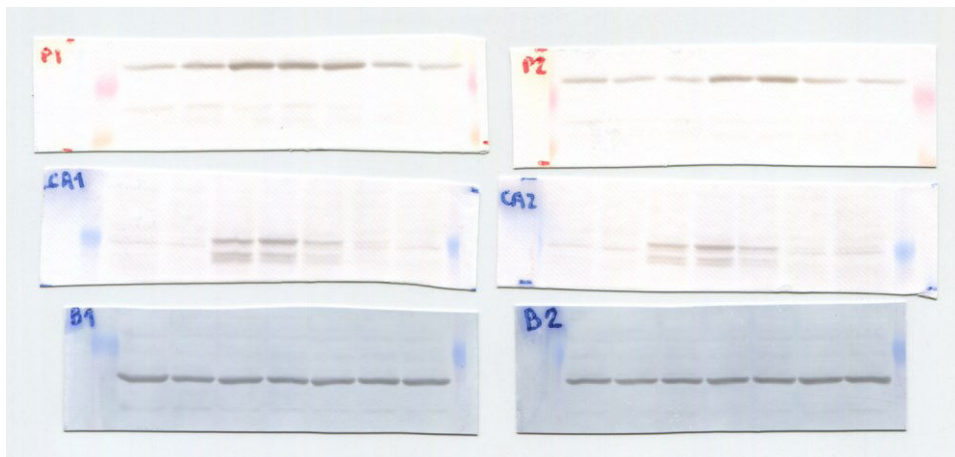
a



b



c



Supplementary figure S1.

PCNA and Cyclin A2 expression in mouse liver during regeneration. **(a)** Immunofluorescence for PCNA (red), HMGB2 (green) and HNF-4 α (blue) in WT and HMGB2-KO mouse livers after PHx. **(b)** Immunofluorescence for Cyclin A2 (red), HMGB2 (green) and HNF-4 α (blue) in WT and HMGB2-KO mouse livers after PHx. Arrows indicate HMGB2- and PCNA-positive hepatocytes. Scale bar 20 μ m. Counting results of PCNA- **(c)** and Cyclin A2-positive **(d)** cells in WT and HMGB2-KO mouse livers after PHx. Data represent the mean \pm SEM from 5-6 mice per group. **(e)** Western blotting of PCNA and Cyclin A2 in WT and HMGB2-KO mouse livers after PHx. Densitometry analysis of PCNA **(f)** and Cyclin A2 **(g)**. Data represent the mean \pm SEM from 3 mice per group. Asterisks indicate statistically significant differences (* p <0.05).

Supplementary figure S2.

pH3S10 expression in mouse liver during regeneration. **(a)** Immunofluorescence for pH3S10 (red), HMGB2 (green) and HNF-4 α (blue) in WT and HMGB2-KO mouse livers after PHx. Arrows indicate HMGB2- and pH3S10-positive hepatocytes. Scale bar 20 μ m. **(b)** Counting results of pH3S10-positive cells in WT and HMGB2-KO mouse livers after PHx. Data represent the mean \pm SEM from 5-6 mice per group. Asterisks indicate statistically significant differences (* p <0.05).

Supplementary figure S3.

Original images of western blotting that revealed in Fig. 2d, Fig. 4g and Supplementary figure S1e. Representative images of three independent experiments are revealed.