

Suppl. Fig. 1: Time course analysis of ConA-induced liver injury.

WT and PGAM5^{-/-} mice were treated with ConA (25mg/kg) for 2h, 4h, and 9h. (A) Plasma concentrations of AST/ALT (+SD, Group sizes ≥ 3). (B) Representative pictures of H&E staining (dashed line shows necrotic area). Scale bars = 200 μ m. (C) Representative pictures of TUNEL staining (red). Scale bars = 250 μ m.

Suppl. Fig. 2: PGAM5 is not necessary for apoptotic liver injury.

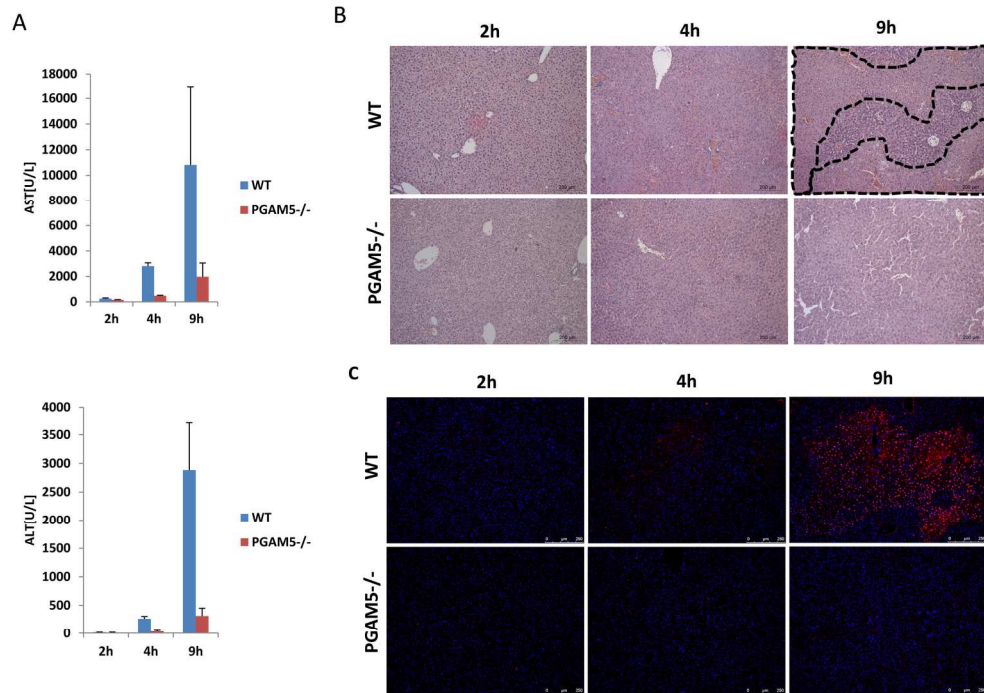
WT and PGAM5^{-/-} mice were treated with anti-FAS (Jo2) antibody at a dose of 0.25 μ g/g of body weight for 6h. (A) Plasma concentrations of AST/ALT (group sizes, n=4). (B) Representative pictures of H&E staining. Insets show respective enlarged pictures. (C) Representative pictures and quantitative analysis of TUNEL staining (red). Scale bars: 250 μ m. (D) Representative pictures of cleaved caspase-3 staining (red). Statistical analysis showed the mean +SD, N.S. $p > 0.05$, * $P \leq 0.05$, ** $P \leq 0.01$, *** $P \leq 0.001$.

Suppl. Fig. 3: Mdivi-1 pretreatment does not block ConA-induced infiltration of T-cells and neutrophils.

(A) Representative pictures of immunofluorescence staining of MPO (upper panel) and CD4 (lower panel) in liver sections from mice treated as indicated for 7h. Scale bars: 100 μ m. (B) Quantification results (Group sizes: n=5). Statistical analysis showed the mean +SD, N.S. $p > 0.05$, *** $P \leq 0.001$.

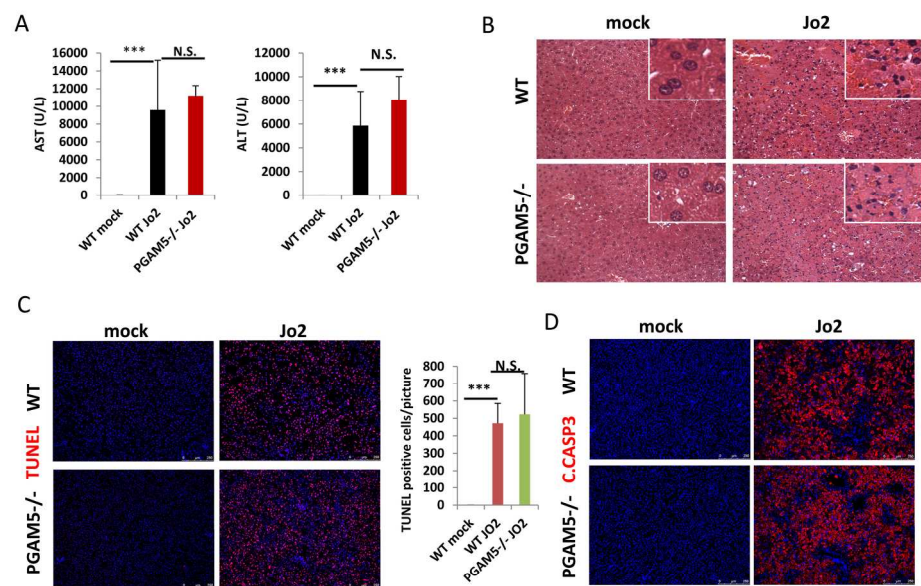
Suppl. Fig. 4: Mdivi-1 is not additive to PGAM5 deficiency in protecting against ConA-induced liver injury.

WT and PGAM5^{-/-} mice were treated with ConA (25mg/kg) for 7h. For ConA+Mdivi-1, PGAM5^{-/-} mice were intraperitoneally injected with Mdivi-1 (50 mg/kg) 30 mins before ConA treatment. (A) Plasma concentrations of AST/ALT (+SD, Group sizes: n=5,) (B) Representative pictures of H&E staining (dashed line shows necrotic area) and TUNEL (green). Scale bars: 100 μ m. (C) Quantitative analysis of TUNEL staining (green). Statistical analysis showed the mean +SD, N.S. $p > 0.05$, * $P \leq 0.05$, ** $P \leq 0.01$, *** $P \leq 0.001$.



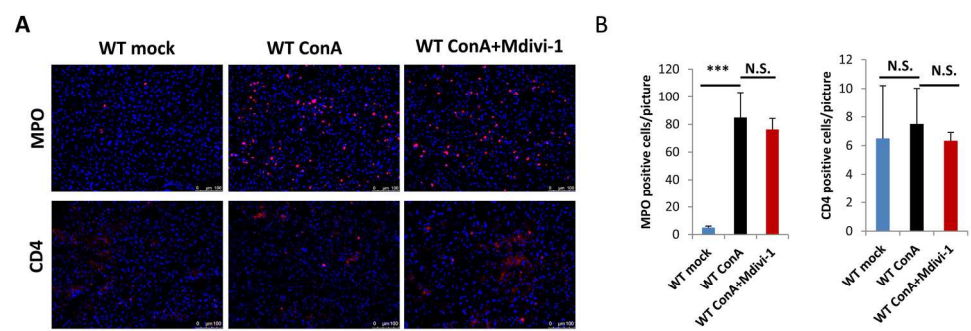
Suppl. Fig. 1

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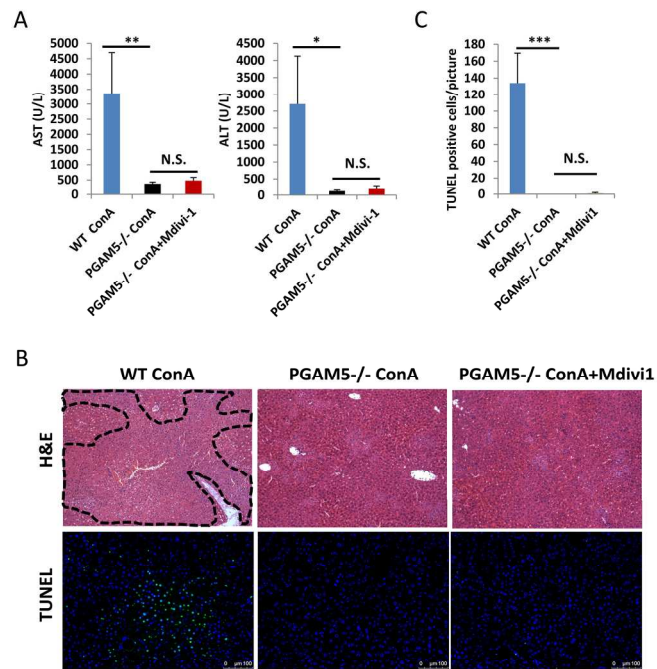
Suppl. Fig. 2

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Suppl. Fig. 3

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Suppl. Fig. 4

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