



**Supplementary Fig. 3.** Asialoglycoprotein receptor 1 (ASGR1) deficiency repaired insulin signal transduction in cellular model stimulated with palmitate (PA) *in vitro*. Western blot of key proteins involved in insulin/protein kinase B (AKT) signaling pathway in HepG2 and *ASGR1*<sup>-/-</sup> HepG2 cells. pInsR $\beta$ , phosphorylation of insulin receptor  $\beta$ .