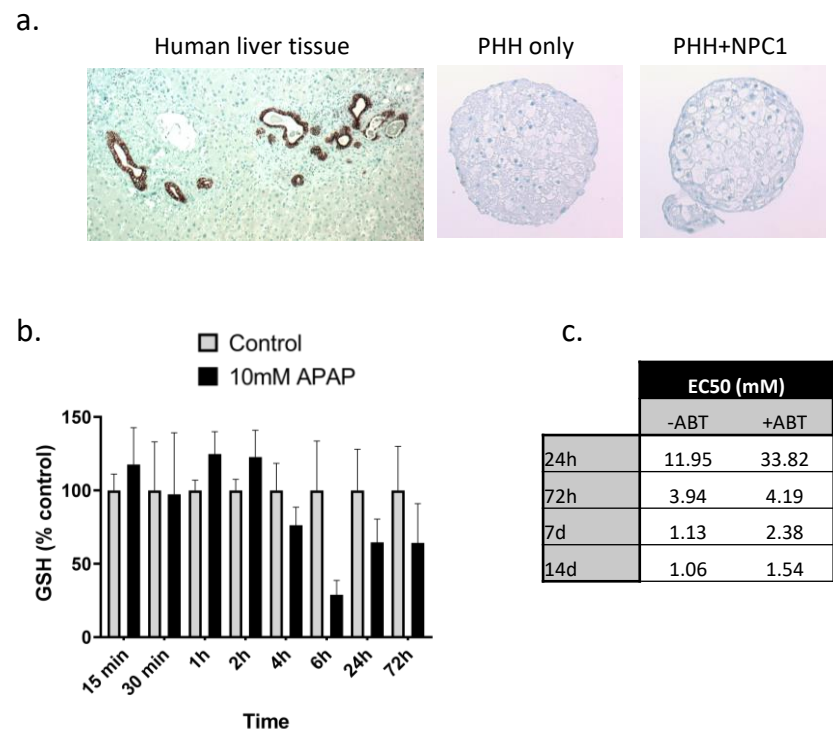




Supplementary figure 1. Additional characterisation of primary human hepatocyte spheroids and response to acetaminophen treatment

a) Staining for cytokeratin-19 indicates that biliary epithelial cells are not present in the NPC preparations used in the current study.

b) Glutathione depletion following APAP treatment of PHH spheroids is detected after 4-6h. Total GSH was determined via LC-MS/MS following derivatisation with monobromobimane. Each bar represents the average $\pm$ SD of 3-6 spheroids, and data is normalised to the untreated control (grey bars) at each timepoint.

c) Co-incubation with 1mM ABT (a non-selective CYP inhibitor) protects PHH spheroids from APAP cytotoxicity. Cellular ATP was measured from spheroids treated with 0-10mM APAP for the indicated timepoints, and the concentrations resulting in a 50% reduction in viability (EC50) were calculated.