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MDPI

Supplementary Material

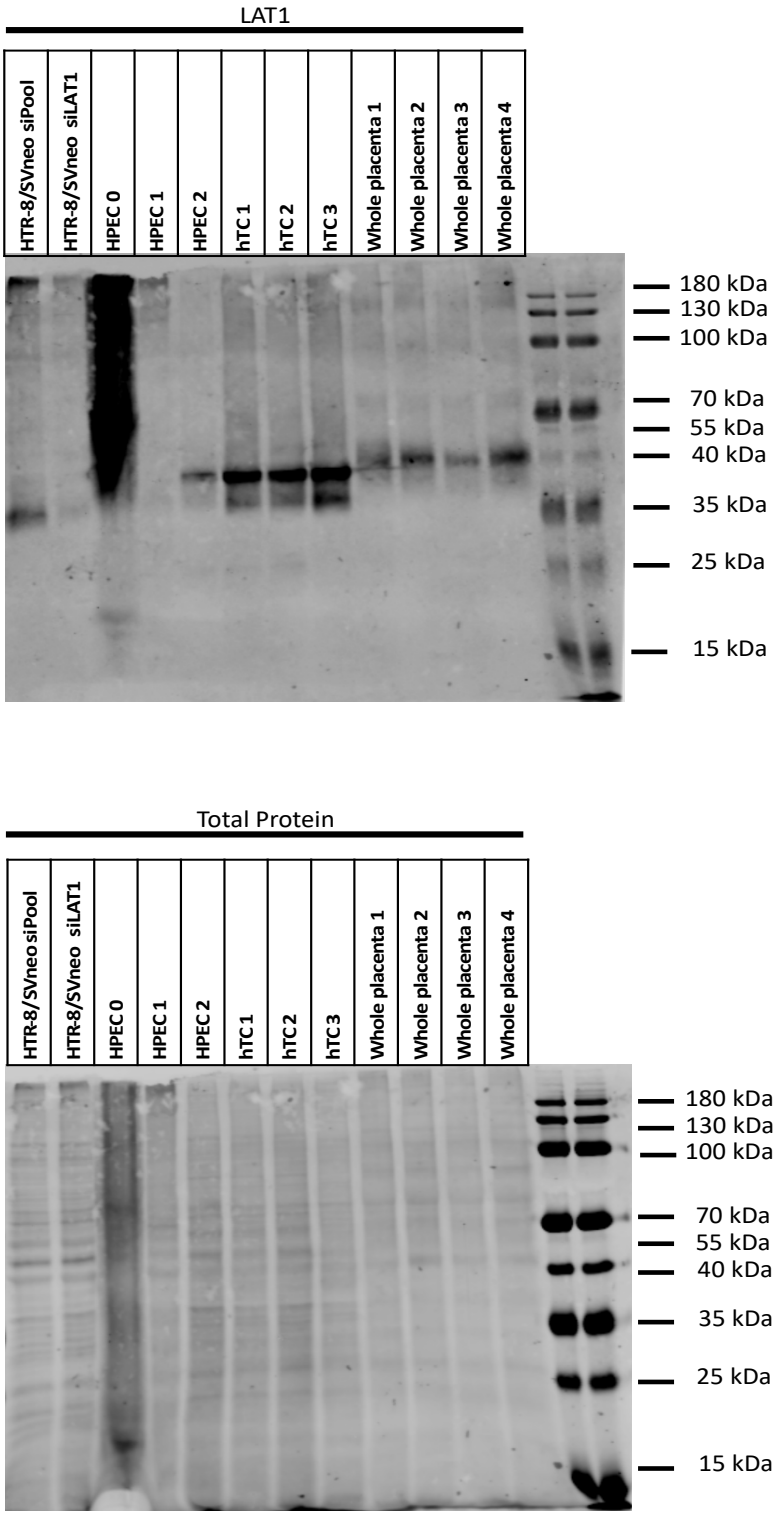
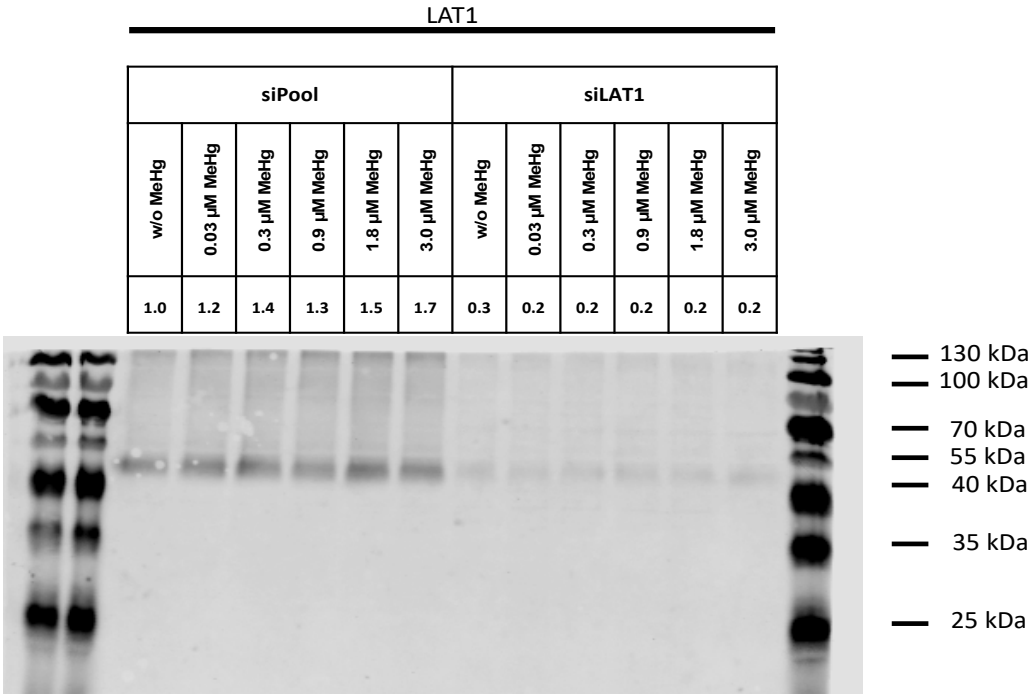


Figure S1. Total immunoblot of LAT1 protein in placental cells and whole placenta lysates.



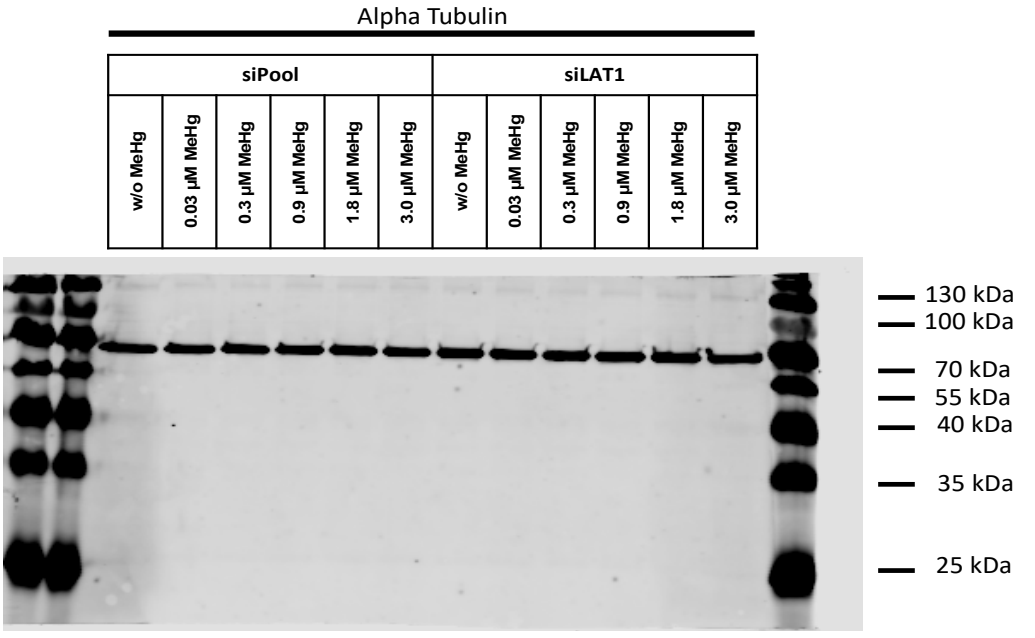


Figure S2. Total immunoblot to verify efficient siRNA-mediated gene knockdown of LAT1 compared to control cell.

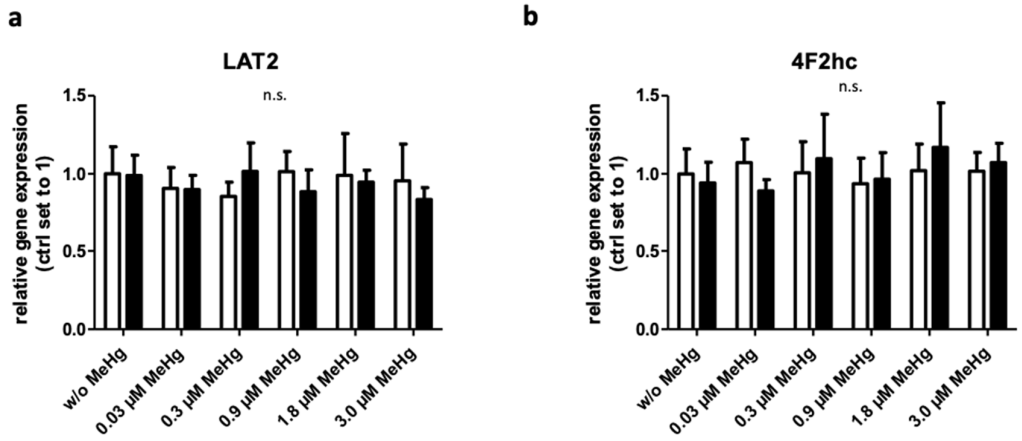


Figure S3. MeHg exposure does not affect mRNA expression of **(a)** LAT2 (SLC7A8) and **(b)** 4F2hc (SLC3A2). The data represent mean values ± SD from three independent experiments, each performed in triplicate. White bars: siPool; Black bars: siLAT1. Statistical analyses used one-way ANOVA and S-N-K posthoc test ($p < 0.05$). $n = 3$; n.s.= non-significant.

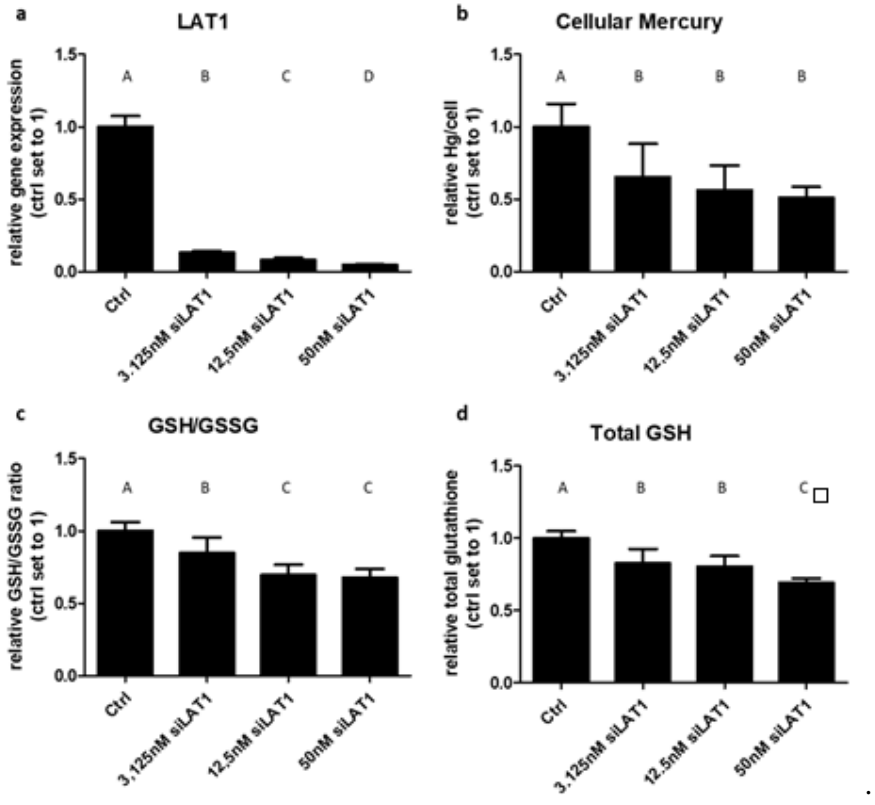


Figure S4. The amount of LAT1-specific siRNA affects LAT1 mRNA levels **(a)**, cellular Hg content **(b)**, GSH/GSSG ratio **(c)** as well as Total GSH **(d)**. The data represent mean values ± SD from three independent experiments, each performed in triplicate. Letters A–D denote homogeneous sub-groups derived from one-way ANOVA and S-N-K posthoc test ($p < 0.05$). $n = 3$.

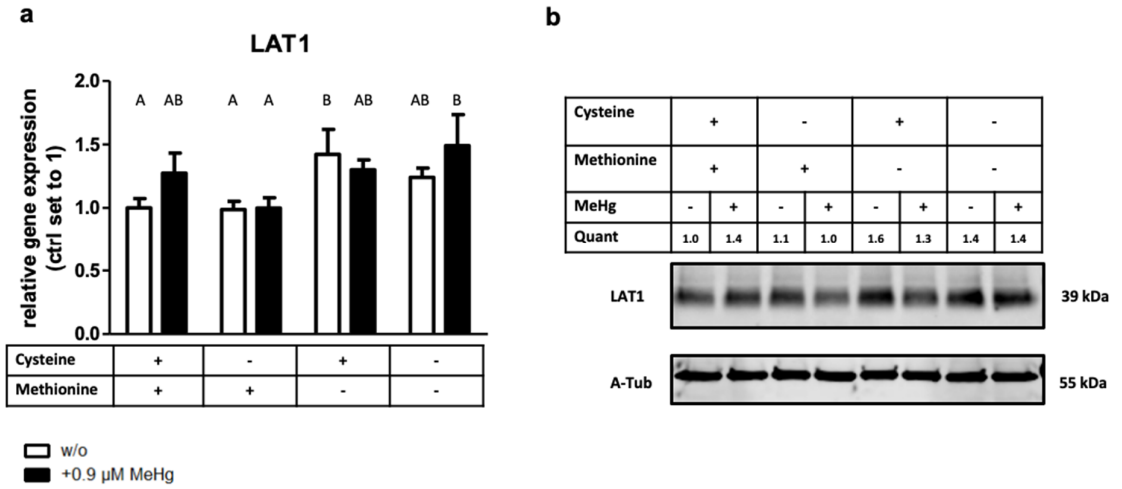


Figure S5. LAT1 mRNA **(a)** and protein levels **(b)** were determined in HTR-8/SVneo cells cultured for 24h in media with different levels of cysteine (50 mg/L) and methionine (15 mg/L), either in the presence of 0.9 µM MeHg or without MeHg (*w/o*). Letters A,B denote homogeneous subgroups derived from one-way ANOVA and S-N-K posthoc test ($p < 0.05$). n = 3; LAT1 protein expression was normalized to α-tubulin (A-tub) levels (representative immunoblot shown).

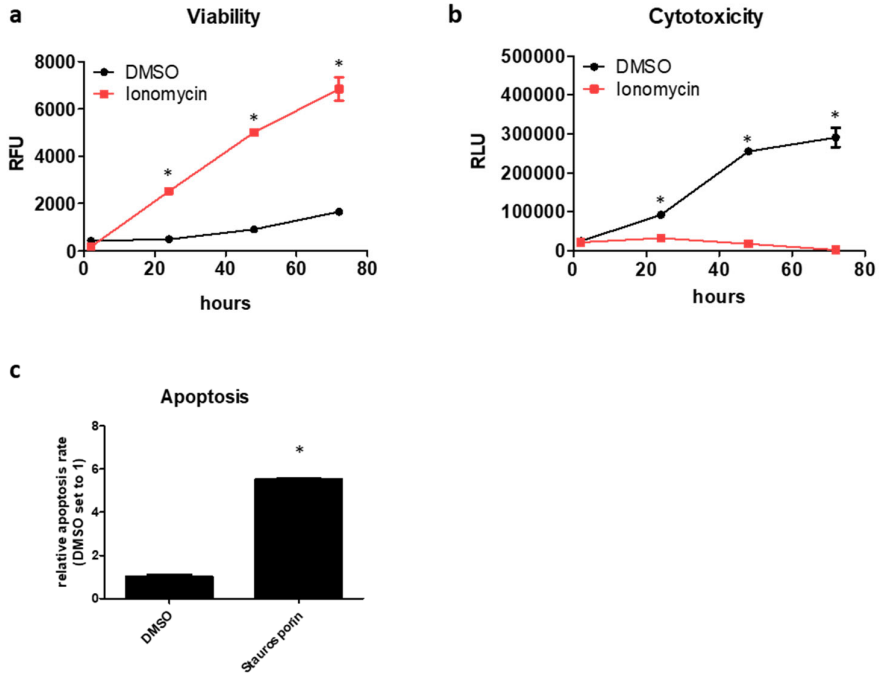


Figure S6. Positive controls of viability (**a**), cytotoxicity (**b**) and apoptosis (**c**). The data represent mean values ± SD from three independent experiments, each performed in triplicate. *$p < 0.05$ from Student's *t*-test. 1% Dimethylsulfoxid (DMSO) in medium was used as control.