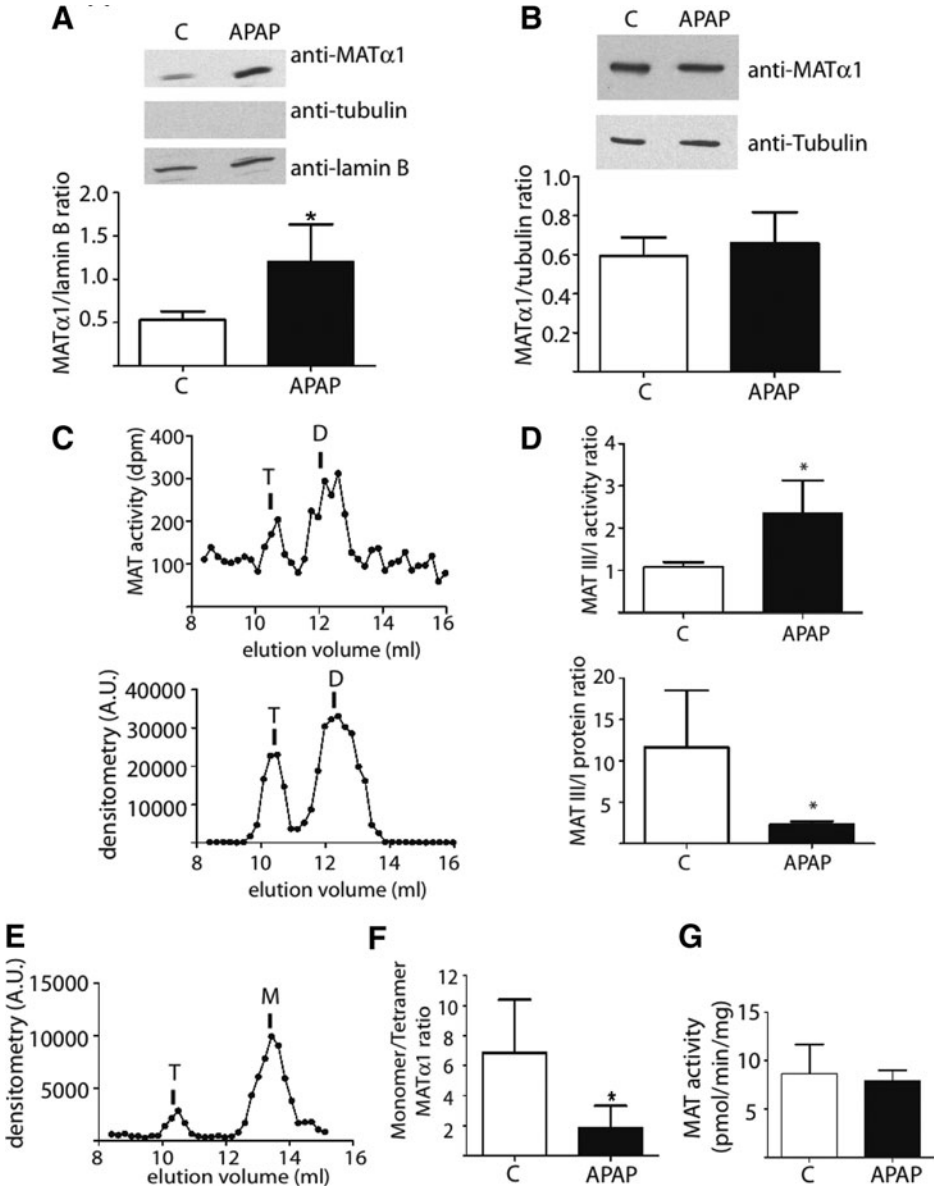

SUPPLEMENTARY FIG. S12. Effects of APAP treatment on MATα1 subcellular distribution and oligomerization in rat liver. Cytosolic and nuclear fractions were isolated from livers of control and APAP-treated rats. Panel **(A)** shows MATα1 levels in nuclear fractions using lamin B as the reference, whereas panel **(B)** illustrates MATα1 levels in the cytosol using α-tubulin as the loading control. Representative MAT activity and dot-blot profiles ($n = 6$) of cytosolic samples analyzed on a Superose 12 10/300 GL gel filtration chromatography column run at 0.3 ml/min are depicted in panel **(C)**, whereas a representative dot-blot profile of a nuclear sample appears in panel **(E)**. The elution volume of the markers was as follows: blue dextran (7.13 ml), apoferritin (9.55 ml), β-amylase (10.38 ml), alcohol dehydrogenase (11.05 ml), carbonic anhydrase (13 ml), and ATP (17.39 ml). Quantification of the cytosolic dimer/tetramer activity and protein ratios are shown in panel **(D)**, whereas the nuclear monomer/tetramer ratio appears in panel **(F)**. Panel **(G)** illustrates nuclear MAT activity in control and APAP-treated livers. The results shown are the mean ± SD of six independent samples; $p \leq 0.05$ (*).