Supporting information for

Mass spectrometry-based lipidomics analysis using methyl tert-butyl ether extraction in human hepatocellular carcinoma tissues

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Figure S1. Full scan base peak mass chromatograms in positive mode: (A) ANT group, (B) HCT group.

Figure S2. TG were synthesized from glycerol-3-phosphate initially, and catalyzed by sn-1-glycerol-3-phosphate acyltransferase to form lysophosphatidic acid (LPA). Then LPA form phosphatidic acid (PA) under the function of acylCoA: 1-acylglycerol-3-phosphate acyltransferase. DG is formed from PA by hydrolyzed by PA phosphatase. Finally, DG is esterified by DG acyltransferase to synthesize TG.

Abbreviations:
- Gro3P, glycerol-3-phosphate;
- Sn-1-Gro3P AT, Sn-s-glycerol-3-phosphate acyltransferase;
- LPA, lysophosphatidic acid;
- 1-acyl-Gro3P AT, 1-acyl glycerol-3-phosphate acyltransferase;
- PA, phosphatidic acid;
- PAP, phosphatidate phosphatase;
- DG, diacylglycerol;
- DG AT, diacylglycerol acyltransferase;
- TG, triacylglycerol.
Figure S3. Abbreviations: Cho K, choline kinase; Eth K, ethanolamine kinase; CCT, phosphocholine (or phosphethanolamine) cytidylyltransferase; CPT, cholinephosphotransferase; EPT, ethanolaminephosphotransferase; PEMT, phosphatidylethanolamine N-methyltransferase; CDS, CDP-diacylglycerol synthase; PGS, phosphatidylglycerol synthase; PSS, phosphatidylserine synthase; PSD, phosphatidylserine decarboxylase; PIS, phosphatidylinositol synthase; P-Cho, phosphocholine; P-Eth, phosphoethanolamine; CDP-Cho, CDP-choline; CDP-Eth, CDP-ethanolamine; PA, phosphatidic acid; PC, phosphatidylcholine; PE, phosphatidylethanolamine; PG, phosphatidylglycerol; PS, phosphatidylserine; PI, phosphatidylinositol.