

**Supplementary Table 2. KEGG pathway terms enriched through GSEA**

<b>Enriched KEGG pathway terms by genes down-expressed in APBC-treated group</b>		
<b>KEGG Pathway Term</b>	<b>NES</b>	<b>FDR q-val</b>
Glycolysis / Gluconeogenesis	-2.3609	<0.0001
Citrate cycle (TCA cycle)	-2.2812	<0.0001
Starch and sucrose metabolism	-2.2508	<0.0001
MAPK signaling pathway - yeast	-2.2027	1.51E-03
Carbon metabolism	-2.1828	1.20E-03
Pyruvate metabolism	-2.1487	1.00E-03
Carbon fixation in photosynthetic organisms	-2.1312	8.60E-04
Microbial metabolism in diverse environments	-2.1135	1.25E-03
Glyoxylate and dicarboxylate metabolism	-2.1096	1.11E-03
Propanoate metabolism	-2.0123	2.96E-03
Fructose and mannose metabolism	-1.8614	1.24E-02
Biosynthesis of antibiotics	-1.8493	1.38E-02
2-Oxocarboxylic acid metabolism	-1.8457	1.33E-02
Galactose metabolism	-1.8083	1.60E-02
Fat digestion and absorption	-1.7815	1.90E-02
Biosynthesis of amino acids	-1.7772	1.85E-02
Hippo signaling pathway - multiple species	-1.7246	2.75E-02
Glucagon signaling pathway	-1.7157	2.80E-02
AMPK signaling pathway	-1.7133	2.72E-02
Hippo signaling pathway - fly	-1.6970	3.05E-02
Biosynthesis of secondary metabolites	-1.6923	3.01E-02
Drug metabolism - cytochrome P450	-1.6592	3.79E-02
<b>Enriched KEGG pathway terms by genes up-expressed in APBC-treated group</b>		
<b>KEGG Pathway Term</b>	<b>NES</b>	<b>FDR q-val</b>
Antigen processing and presentation	2.3567	<0.0001
TNF signaling pathway	2.0654	<0.0001
Intestinal immune network for IgA production	2.0467	1.91E-04
Ribosome biogenesis in eukaryotes	2.0304	2.87E-04
NOD-like receptor signaling pathway	1.9847	8.54E-04
DNA replication	1.9705	7.12E-04
Th17 cell differentiation	1.8540	4.40E-03
Cytokine-cytokine receptor interaction	1.8476	4.38E-03
Proteasome	1.8242	5.17E-03
Cell cycle - yeast	1.8070	6.05E-03
Cytosolic DNA-sensing pathway	1.8054	5.71E-03
Phagosome	1.7748	7.82E-03
Th1 and Th2 cell differentiation	1.7592	8.77E-03
Homologous recombination	1.7336	1.10E-02
C-type lectin receptor signaling pathway	1.7164	1.33E-02
Aminoacyl-tRNA biosynthesis	1.7152	1.26E-02
Spliceosome	1.7102	1.24E-02
Cell adhesion molecules (CAMs)	1.7094	1.19E-02
RNA transport	1.6819	1.56E-02
IL-17 signaling pathway	1.6551	2.00E-02
Toll-like receptor signaling pathway	1.6096	3.01E-02
Hematopoietic cell lineage	1.6078	2.93E-02
NF-kappa B signaling pathway	1.5700	4.18E-02
Fanconi anemia pathway	1.5531	4.72E-02