**Figure S1.** Expression of CPZ and its co-expressed genes in gastric cancer tissues. (A)

CPZ expression was highly positively correlated with SERPINF1 expression in TCGASTAD.

(B) SERPINF1 is specifically expressed in fibroblasts and tumor cells. (C)

Expression heat map of CPZ co-expressed genes. \**p* < 0.05; \*\**p* < 0.01; \*\*\**p* < 0.001.

**Figure S2.** Expression of AEBP1 in gastric cancer tissues and specific cell types. (A)

AEBP1 and BGN expression levels are highly correlated. (B) BGN was specifically expressed

in fibroblasts and tumor cells of gastric cancer tissues. (C) AEBP1 is specifically expressed

in fibroblasts of normal gastric tissues (HPA database). (D) AEBP1 is highly expressed in gastric

cancer tissues and low in adjacent tissues based on HPA database.

**Figure S3.** The impact of AEBP1 on the expression of its correlated genes.(A-D)

Construction of HGC27 and MKN28 cell lines with AEBP1 shRNA stably knockdown. (E-F)

AGS cell line with AEBP1 overexpression. EV: empty vector; OV: over-expression of AEBP1. \**p* < 0.05; \*\**p* < 0.01; \*\*\**p* < 0.001.