



Figure S1. Effect of ASCT2 knockdown on cell apoptosis. (A) The rate of cell apoptosis was detected through flow cytometry in AsPC1 cells upon ASCT2 knockdown. (B-C) BxPC3, PANC-1 and AsPC1 cells were respectively infected with a control or ASCT2 lentiviral shRNA. A Western blot analysis of the expressions of Bcl-2, Bax and cleavage-caspase 3 proteins. β -actin was used as the loading control. * $P < 0.05$, ** $P < 0.01$, versus the control group.

Supplementary Table 1 Primer sequences used in the study.

| primer name | sequence (5' to 3') |
|------------------|----------------------|
| qPCR primers | |
| ASCT2 F | GCAGTCCTTGGACTTCGTA |
| ASCT2 R | ATGATGGCCAGAGTGAGGAC |
| β -actin F | AGCCTCGCCTTTGCCGA |
| β -actin R | GCGCGGCGATATCATCATC |

Supplementary Table 2 Antibody used in the study.

| Name | Cat.No. | antibody dilutions | Source/Isotype | MW (kDa) |
|---|---------|--------------------|----------------|----------|
| ASCT2 (D7C12) Rabbit mAb | 8057 | 1:1000 | Rabbit | 49, 75 |
| Bcl-2 (D55G8) Rabbit mAb | 4223 | 1:1000 | Rabbit | 26 |
| Bax | 2772 | 1:1000 | Rabbit | 20 |
| Akt | 9272 | 1:1000 | Rabbit | 60 |
| Phospho-Akt (Ser473) (D9E) XP® Rabbit mAb | 4060 | 1:1000 | Rabbit | 60 |
| p70 S6 Kinase (49D7) Rabbit mAb | 2708 | 1:1000 | Rabbit | 70, 85 |
| Phospho-p70 S6 Kinase (Thr389) Antibody | 9205 | 1:1000 | Rabbit | 70, 85 |
| 4E-BP1 (53H11) Rabbit mAb | 9644 | 1:1000 | Rabbit | 15-20 |
| Phospho-4E-BP1 (Thr37/46) (236B4) Rabbit mAb | 2855 | 1:1000 | Rabbit | 15-20 |
| Cleaved Caspase-3 (Asp175) (5A1E) Rabbit mAb | 9664 | 1:1000 | Rabbit | 17, 19 |
| β -Actin (D6A8) Rabbit mAb | 8457 | 1:1000 | Rabbit | 45 |
| Anti-rabbit IgG, HRP-linked Antibody | 7074 | 1:1000 | Goat | |