

Supplementary figures and tables

Table S1. The antibodies used in this study.

Figure S1. The expression of GLUT1 in NSCLC cell lines.

Figure S2. The standard curve for β -actin and GLUT1. (A) the standard curve for β -actin (reference gene), the standard curve equation: $Y = -3.2275 \times \text{LOG}(X_0) + 28.731$, $X = \text{LOG}(X_0)$ correlation coefficient: 0.9884; amplification efficiency : 104.1%. (B) the standard curve for GLUT1 (target gene), the standard curve equation: $Y = -3.1573 \times \text{LOG}(X_0) + 32.881$, $X = \text{LOG}(X_0)$; correlation coefficient: 0.9803; amplification efficiency: 107.4%. LOG: logarithms; CT: cycle threshold.

Figure S3. The effect of siRNA-integrin $\beta 1$ on GLUT1-mediated NSCLC cell biological behavior. (A) NSCLC cell migration; (B) NSCLC cell invasion; (C) NSCLC cell colony formation; (D) NSCLC cell proliferation; (E) NSCLC cell apoptosis. We co-transfected GLUT1 expression plasmid with siRNA-integrin $\beta 1$ to LK2 cell; the graph in (A) shows the distance of cell migration under different treatments; the graph in (B)-(C) shows the number of invading cells and colony formation under different treatments; a, negative control; b, tranfection of GLUT1 expression plasmid; c, co-transfection of GLUT1 expression plasmid with siRNA-integrin $\beta 1$.

Figure S4. The effect of siRNA-integrin $\beta 1$ on GLUT1-mediated correlated proteins in LK2 cell. The integrin $\beta 1$ /Src/FAK signaling correlated proteins: Src, p-Src, FAK, p-FAK, integrin $\beta 1$. We co-transfected GLUT1 expression plasmid

(GLUT1) with the siRNA-integrin $\beta 1$ (si-integrin $\beta 1$) to LK2 cell; si-NC, scramble siRNA for negative control.

Table S1. The antibodies used in this study.

Antibody	Vendor	Catalog number	Uses*
GLUT1	Santa Cruz Biotechnology	sc-377228	WB (1: 400)
cyclin E	Santa Cruz Biotechnology	sc-247	WB (1: 300)
cyclin A	Santa Cruz Biotechnology	sc-239	WB (1: 300)
cyclin D1	Santa Cruz Biotechnology	sc-20044	WB (1: 300)
MMP2	Santa Cruz Biotechnology	sc-13594	WB (1: 300)
TIMP2	Santa Cruz Biotechnology	sc-21735	WB (1: 400)
CDK2	Santa Cruz Biotechnology	sc-6248	WB (1: 200)
CDK4	Santa Cruz Biotechnology	sc-23896	WB (1: 400)
CDK6	Santa Cruz Biotechnology	sc-7961	WB (1: 400)
p53	Santa Cruz Biotechnology	sc-126	WB (1: 300)
p21	Santa Cruz Biotechnology	sc-6246	WB (1: 300)
p130	Santa Cruz Biotechnology	sc-53641	WB (1: 300)
Rb	Santa Cruz Biotechnology	sc-102	WB (1: 300)
Phospho-Rb	Santa Cruz Biotechnology	sc-271930	WB (1: 300)
integrin β 1	Santa Cruz Biotechnology	sc-13590	WB (1: 400)
FAK	Cell Signaling Technology	3285	WB (1: 1000)
Phospho-FAK	Cell Signaling Technology	3281	WB (1: 1000)
Src	Santa Cruz Biotechnology	sc-130124	WB (1: 300)
Phospho-Src	Santa Cruz Biotechnology	sc-136012	WB (1: 300)
ROCK1	Santa Cruz Biotechnology	sc-17794	WB (1: 300)

CD44	Santa Cruz Biotechnology	sc-9960	WB (1: 300)
GADPH	Santa Cruz Biotechnology	sc-32233	WB (1: 1000)
ROCK2	Santa Cruz Biotechnology	sc-398519	WB (1: 300)
RhoA	Santa Cruz Biotechnology	sc-418	WB (1: 300)

*WB, Western Blot. Antibody dilutions are indicated in bracket.

Figure S1

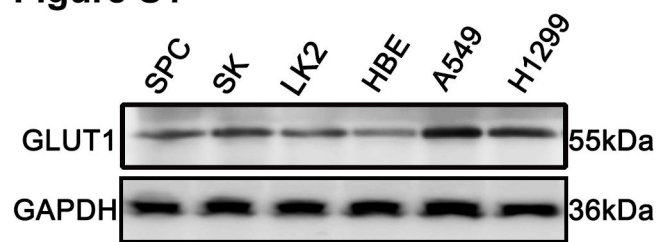


Figure S2

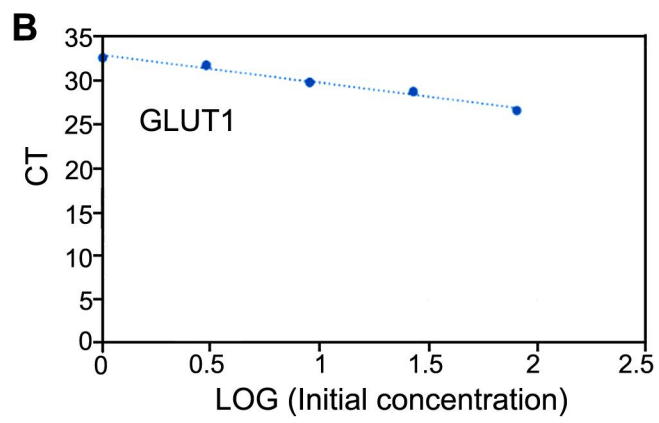
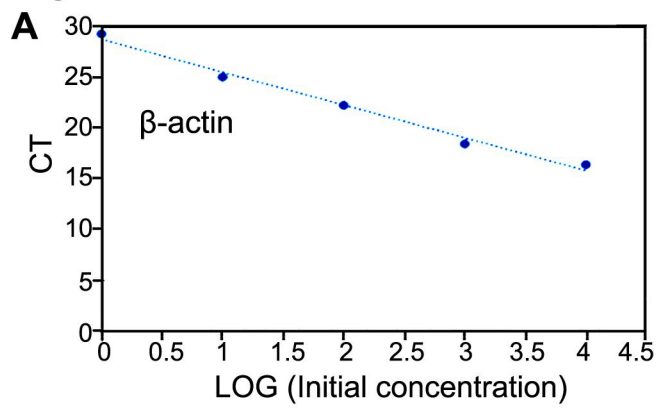


Figure S3

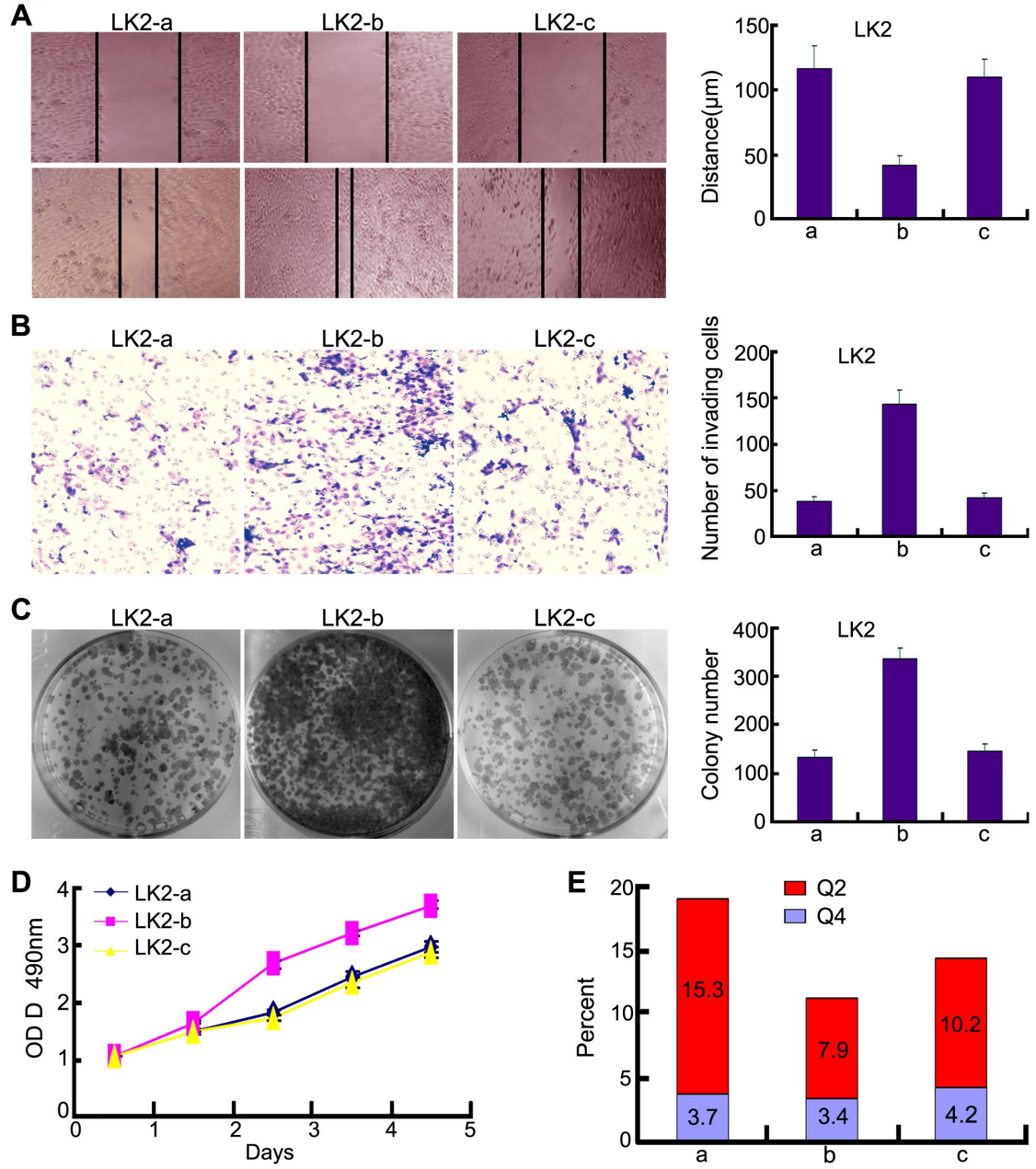


Figure S4

