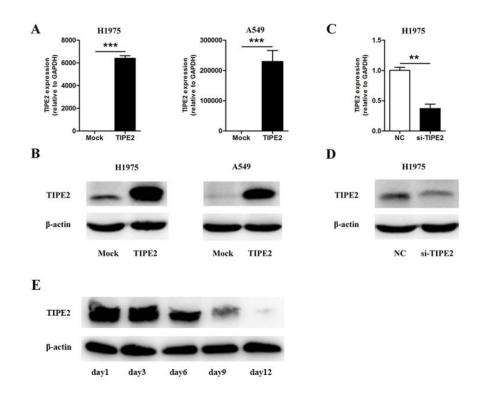
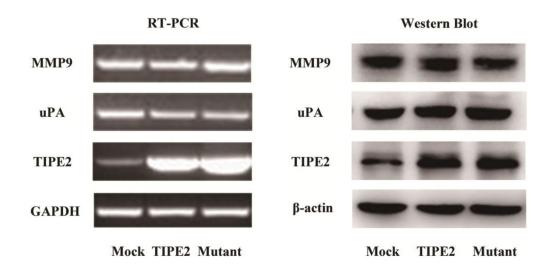
TIPE2 suppresses angiogenesis and non-small cell lung cancer (NSCLC) invasiveness via inhibiting Rac1 activation and VEGF expression

SUPPLEMENTARY FIGURES AND TABLES



Supplementary Figure S1: Effects of transfection that validated by real-time PCR and western blot. A. TIPE2 mRNA expression in H1975 and A549 was detected by real-time PCR after transient transfection with mock or TIPE2 plasmid. B. TIPE2 protein expression in H1975 and A549 was detected by western blot after transient transfection with mock or TIPE2 plasmid. C. TIPE2 mRNA expression in H1975 cells was detected by real-time PCR after transient transfection with TIPE2 siRNA or negative control. D. TIPE2 protein expression in H1975 cells was detected by western blot after transient transfection with TIPE2 siRNA or negative control. E. TIPE2 protein expression in H1975 cells was detected by western blot 1, 3, 6, 9, 12 days after transient transfection with TIPE2 plasmid respectively. Data represent mean±SD from three independent experiments. *, P<0.05; **, P<0.01; ***, P<0.001.



Supplementary Figure S2: TIPE2 had no effect on the expression of neither MMP9 nor uPA in H1975 cells. The expression of MMP9 and uPA were detected by RT-PCR and western blot in H1975 cells after transient transfection with mock, wild type TIPE2 and mutant TIPE2 plasmids respectively.

Supplementary Table S1: sensitivity, specificity, and positive and negative predictive values for NSCLC detection using TIPE2 expression

TIPE2 expression	Tumor	Adjacent	Sensitivity	Specificity	PPV ^a	NPV ^b
Low	18	72	90.67	94.67	94.4	91.0
High	57	3				

^aPPV= Positive Predictive Value

Supplementary Table S2: sensitivity, specificity, and positive and negative predictive values for LNM detection using TIPE2 expression

TIPE2 expression	LNM ^a negative	LNM positive	Sensitivity	Specificity	PPV ^b	NPV°
Low	0	18	78.43	100	100	68.6
High	24	33				

^aLNM= Lymph node metastasis

^bNPV= Negative Predictive Value

^bPPV= Positive Predictive Value

^cNPV= Negative Predictive Value