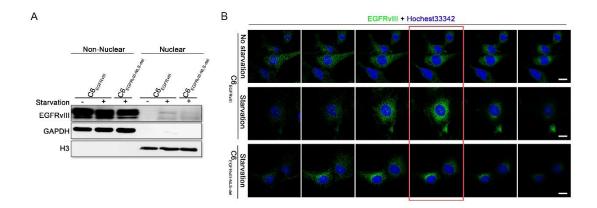
S1: EGFRvIII's nuclear translocation was observed in U251EGFRvIII

A: Comparison of EGFRvIII's and EGFRvIII-NLS-del's nuclear translocation by immunoblot analysis in U251_{EGFRvIII} and U251_{EGFRvIII-NLS-del}. Non-nucleus and nucleus were separated after 24h serum-free starvation culture and then immunoblot test was carried out. Histone H3 was used as nuclear marker.

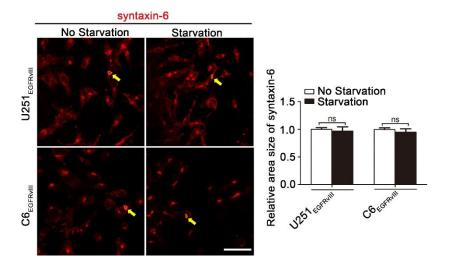
B: Sequential sections of the nucleus in $U251_{EGFRvIII}$ and $U251_{EGFRvIII-NLS-del}$ by Confocal imaging. Every section is $0.2\mu m$. The red line represents the largest dimension of the nucleus.



S2: EGFRvIII's nuclear translocation was observed in C6EGFRvIII

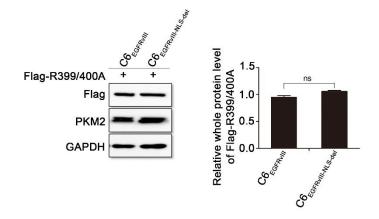
A: Comparison of EGFRvIII's nuclear translocation by immunoblot analysis in $C6_{EGFRvIII}$ and $C6_{EGFRvIII-NLS-del}$. Non-nucleus and nucleus were separated after 24h serum-free starvation culture and then immunoblot test was carried out. Histone H3 was used as nuclear marker.

B: Sequential sections of the nucleus in $C6_{EGFRvIII}$ and $C6_{EGFRvIII-NLS-del}$ by Confocal imaging. Every section is $0.2\mu m$. The red line represents the largest dimension of the nucleus.

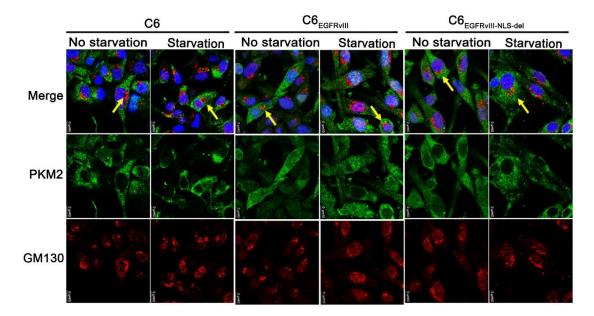


S3: Serum-free starvation culture will not expand the positive area of syntaxin-6

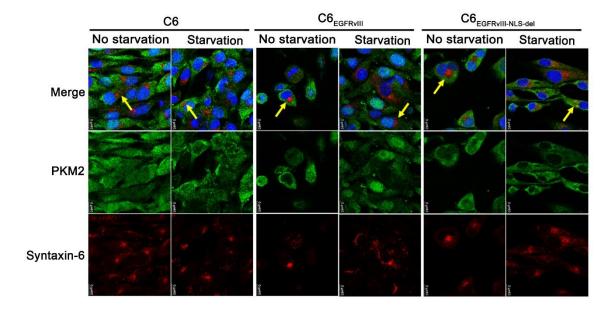
Statistical analysis of the positive area of syntaxin-6 were performed before and after serum-free starvation in $U251_{EGFRvIII}$ and $C6_{EGFRvIII}$ with image J software. As shown by the yellow arrow and the yellow line, we respectively analyzed the positive region of syntaxin-6 in 100 cells of $U251_{EGFRvIII}$ and $C6_{EGFRvIII}$. Right histogram is a statistical result of relative areas before and after starvation.



S4: Immunoblot analysis for Flag-R399/400A of the whole protein level in C6_{EGFRvIII} and C6_{EGFRvIII-NLS-del} after lentivirus infection. Right histogram is a statistical result of relative whole protein level of Flag-R399/400A, which indicates Flag-R399/400A has no statistical difference in this two cell lines.



S5: Immunofluorescence localization results of PKM2 and GM130 before and after 24h serum-free starvation in C6, $C6_{EGFRvII}$ and $C6_{EGFRvII-NLS-del}$ respectively. The position of the yellow arrow indicates that there is no co-localization of PKM2 with GM130. All the scale bars are 10um.



S6: Immunofluorescence localization results of PKM2 and Syntaxin6 before and after 24h serum-free starvation in C6, $C6_{EGFRvIII}$ and $C6_{EGFRvII-NLS-del}$ respectively. The position of the yellow arrow indicates that there is no co-localization of PKM2 with Syntaxin6. All the scale bars are 10um.