

RPL11 promotes non-small cell lung cancer cell proliferation via regulating endoplasmic reticulum stress and cell autophagy

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Supplementary Figures

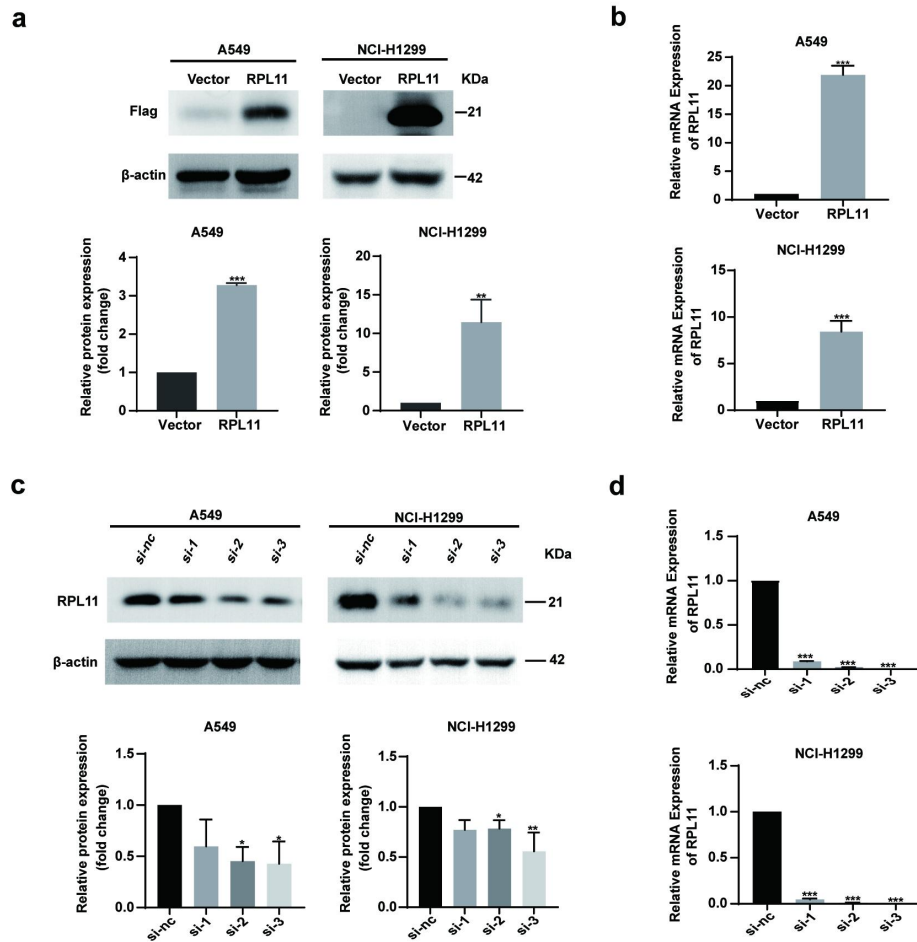


Figure S1 : RPL11 overexpression vector and siRNAs (si-1, si-2 and si-3) efficiency validation. NSCLC cell lines A549 and NCI-H1299 were pretransfected with RPL11 overexpression vector (RPL11), the control vector (Vector), negative control siRNA (si-nc) or RPL11 interference RNAs (si-1, si-2 and si-3) were used to test the RPL11 expression. (a, b) Western blotting (a) and RT-qPCR (b) examination for RPL11 overexpression vector efficiency in A549 and NCI-H1299 cells. (c, d) Western blotting (c) and RT-qPCR (d) examination for siRNA knockdown efficiency of RPL11. The blots were cut prior to hybridization with antibodies during blotting. For RT-qPCR, β -actin was used as the internal control reference gene. Data are presented as mean $\pm$ SD from three independent trials ($n = 3$). Statistical data of a and b was analyzed using unpaired student's t-test, statistical data of c and d was analyzed using one-way ANOVA. $*P < 0.05$, $**P < 0.01$, $***P < 0.001$

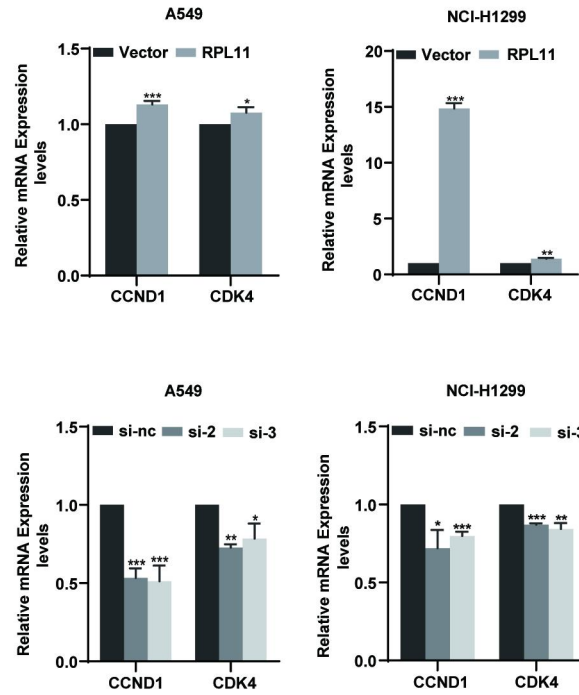


Figure S2 : Influence of RPL11 on the mRNA expression level of cell cycle-related proteins cyclin D1 (*CCND1*) and cyclin-dependent kinase (*CDK4*). A549 and NCI-H1299 cells transfected with control vector, RPL11 overexpression vector (upper), small interference RNA of RPL11 (siRNA, si-1, si-2, si-3), or negative control RNA of RPL11 (si-nc) (lower) were RNA extracted and RT-qPCR examined for the relative mRNA expression changes of *CCND1* and *CDK4*. The relative gene expression levels were normalized to that of β -actin. Data are presented as mean $\pm$ SD from three independent trials (n = 3). Statistical data of the upper was analyzed using unpaired student's t-test, statistical data of the bottom was analyzed using one-way ANOVA. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$

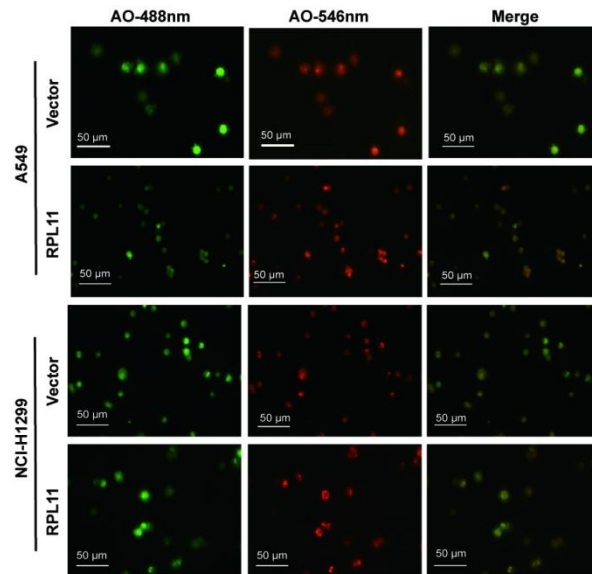


Figure S3 : Acridine orange (AO) staining for acidic components of RPL11 overexpressed NSCLC cells. A549 and NCI-H1299 cells pre-transfected with control vector (vector) or RPL11 overexpression vector (RPL11) were AO stained and photographed. Nuclolous and cytoplasm fluoresce dim red and bright green, acidic compartments fluoresce bright red.