

Fig. S1 Results of flow cytometry analysis.

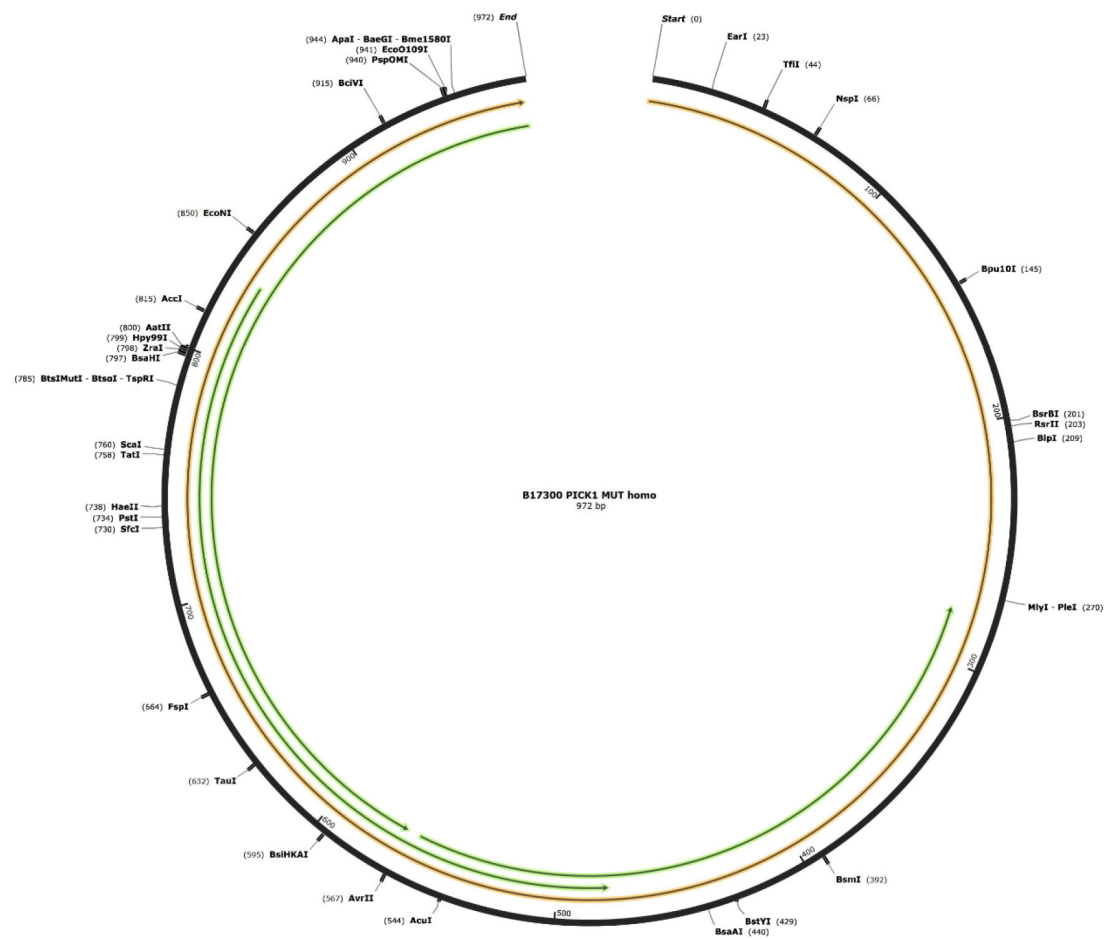


Fig. S2 PICK PDZ plasmid profile.

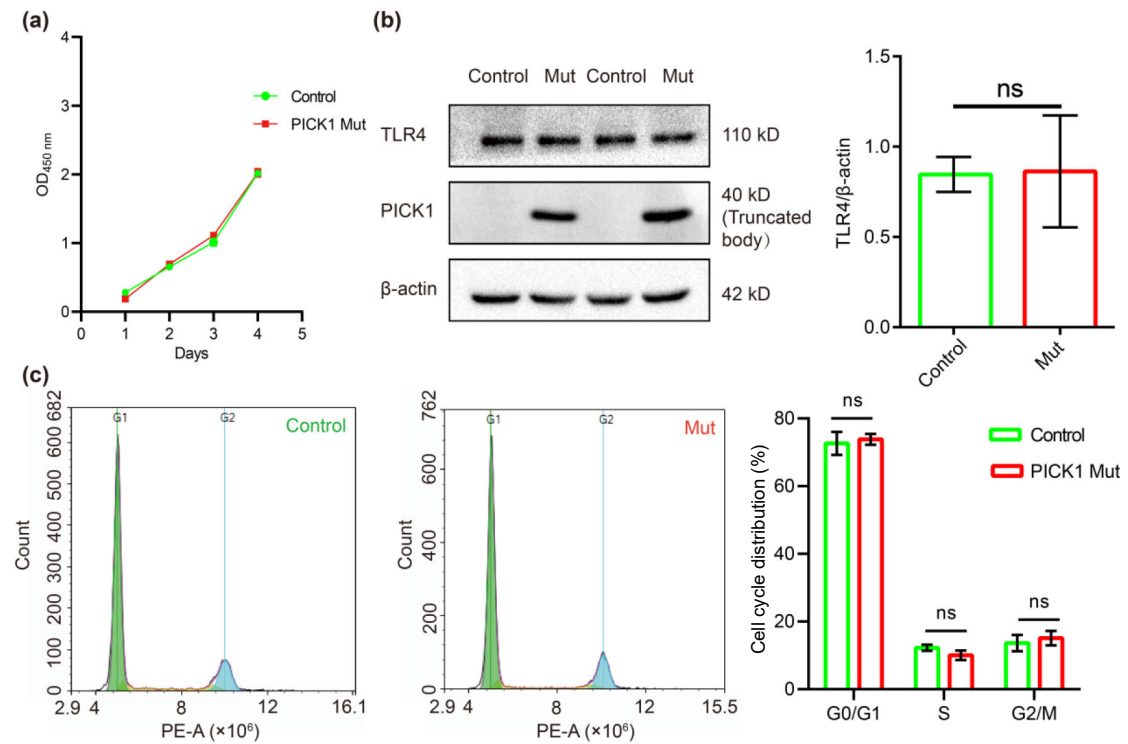


Fig. S3 Effect of PICK1 non-functional mutations on AGS cells. (a) Growth curves of AGS cells infected with control and PICK1 mutant plasmid. (b) TLR4 and PICK1 protein expression in AGS cells after infection with NC and PICK1 mutant plasmids for 48 h. (c) Cell cycle of AGS cells after infection with NC and PICK1 mutant plasmid for 48 h. Data are presented as mean±SD, $n \geq 3$. ns: no significant difference; PICK1: protein interacting with C kinase 1; TLR4: Toll-like receptor 4; mut: mutant.

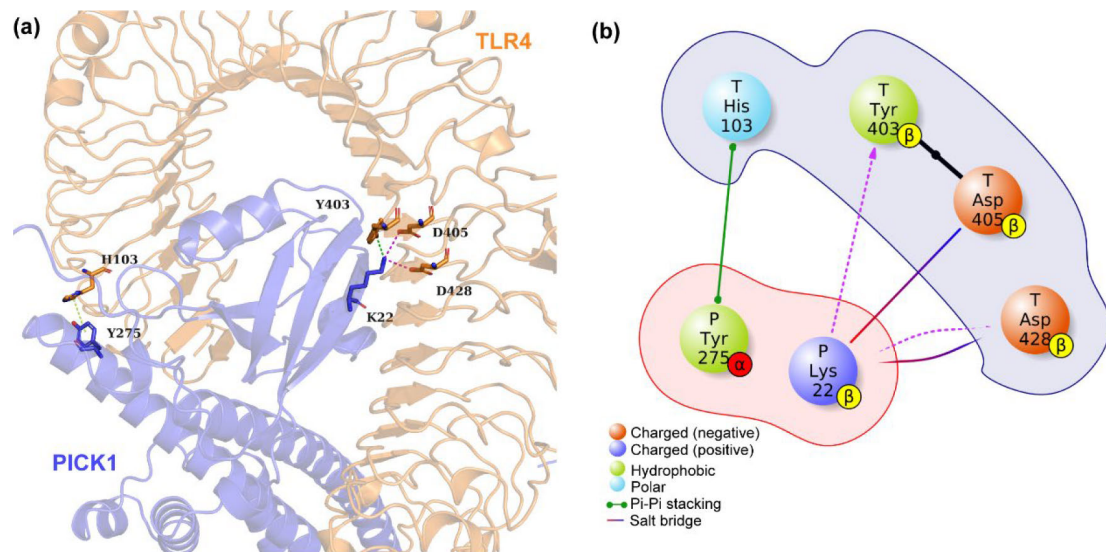


Fig. S4 Combination of PICK1 with TLR4 analysis. (a) 3D structures. Hydrogen bond is represented by dotted green lines; salt bridge is represented by dotted red lines. (b) 2D structures. Hydrogen bond is represented by dotted lines and arrows; salt bridge is represented by coloured lines; π -stack is represented by straight green lines. PICK1: protein interacting with C kinase 1; TLR4: Toll-like receptor 4; His: histidine; Tyr: tyrosine; Asp: aspartic acid; Lys: lysine.