



Figure S1. The effects of gene overexpression and compounds on cell viability. (a) Cells were transfected with Myc-tag empty vector (Vec.) or Myc-tag human VPS34 (VPS34) and subjected to indirect immunofluorescence assay (IFA) in 293T cells, followed by measuring transfection efficiency. Scale Bar = 20 μ m. The cell viability was determined by CCK8 kit in VPS34 overexpressing cells (VPS34) (b), VPS34 knockout (VPS34 KO) cell lines (f) and cells treated with Rapa (e), Wort (g), CQ (h). (c) Quantifications of the immunoblots in cells expressing VPS34. (d) Quantifications of the immunoblots in cells expressing VPS34 treated with lysosomal inhibitor CQ. Cells transfected with Myc-tag empty vector (Vec.) or Myc-tag human SQSTM1 (i) and chicken SQSTM1 (k), or cell lines stable expressing human SQSTM1 (m) were subjected to indirect immunofluorescence assay (IFA), followed by measuring transfection efficiency. Scale Bar = 20 μ m. The cell viability was determined by CCK8 kit in SQSTM1 overexpressing 293T cells (human SQSTM1) (j), chicken SQSTM1 expressing DF-1 cells (l), stable 293T cells expressing SQSTM1 (n), and SQSTM1 knockout cell lines (o).