

SUPPLEMENTARY FIGURE S3

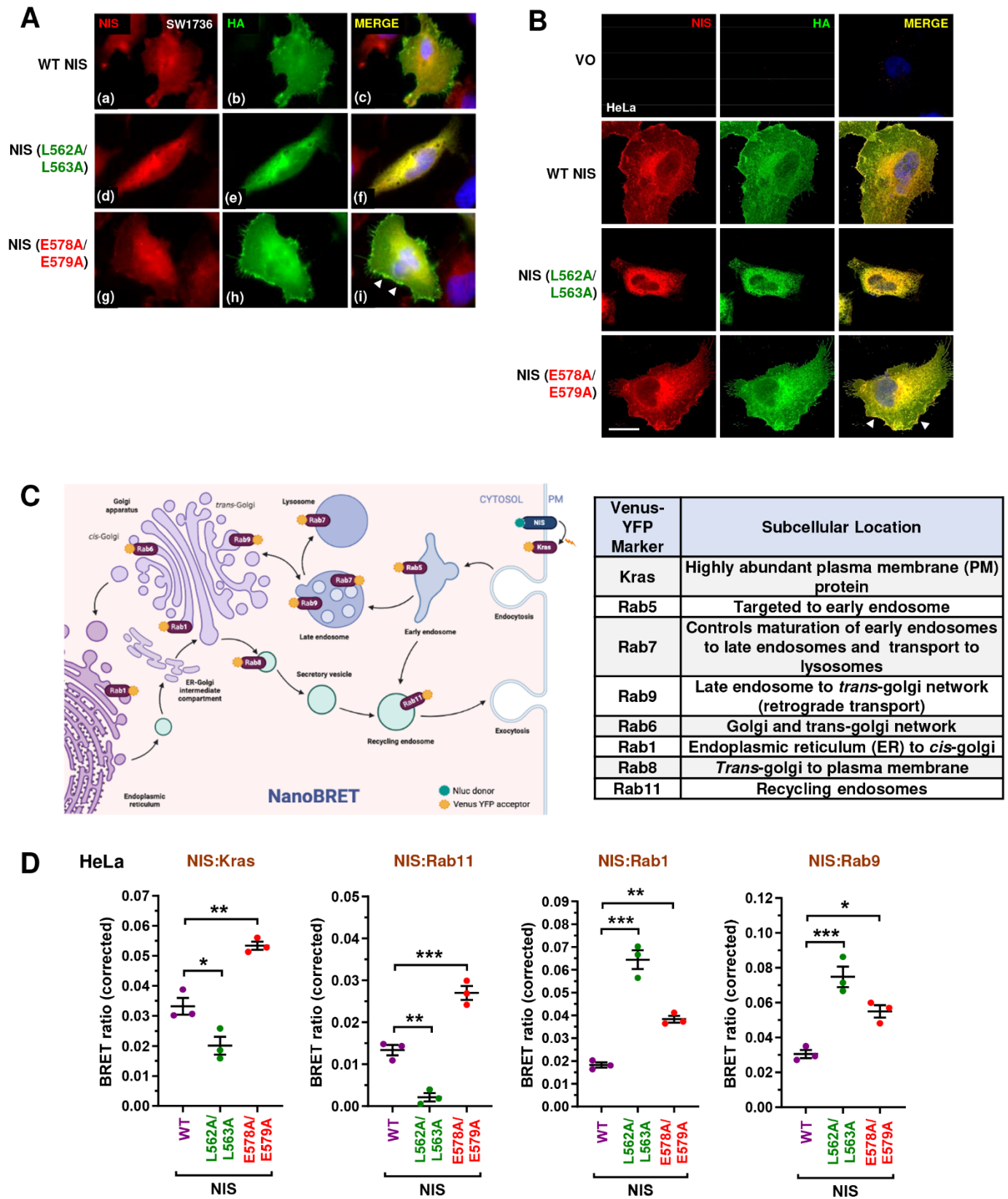


Figure S3. Depletion of AP α and μ 2 subunits increases NIS at the plasma membrane in thyroid cells. **A** and **B**, Confocal imaging in SW1736 (**A**) and HeLa (**B**) cells transfected with HA-tagged wild-type (WT) NIS, NIS mutant L562/L563A or NIS mutant E578A/E579A. Confocal images represent NIS expression (red), HA expression (green) and a merged image (yellow). Arrows (white) highlight PM regions with greater NIS localisation. Scale bar – 20 μ m. **C**, Schematic depicting NanoBRET assay to monitor close proximity of NIS with different subcellular markers (e.g. Rab 1, 8 and 11) tagged with Venus. (*right*) Subcellular location of Venus-YFP markers used in study. Created with BioRender.com. **D**, Profiling subcellular location of WT NIS, NIS mutant L562A/L563A and NIS mutant E578A/E579A using the NanoBRET assay. HeLa cells were transiently transfected with NIS or indicated NIS mutant tagged with NLuc,

and the subcellular markers Kras (plasma membrane), Rab11 (recycling endosomes), Rab1 (ER trafficking to cis-golgi) or Rab9 (late endosome to *trans*-golgi network) tagged with Venus.