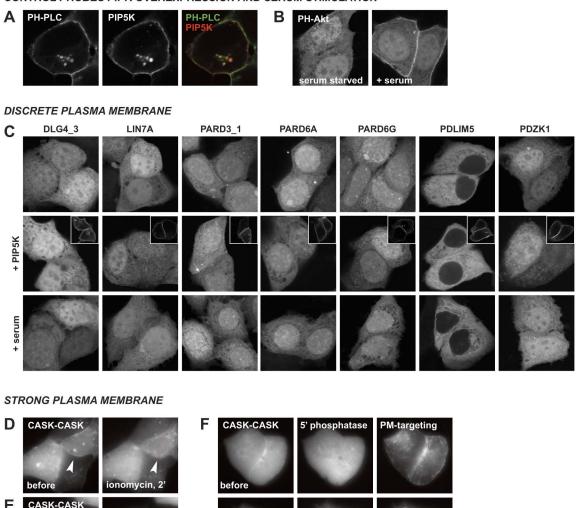
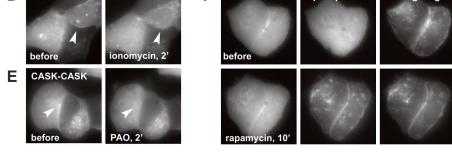
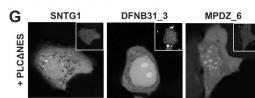
CONTROL PROBES PIPK OVEREXPRESSION AND SERUM STIMULATION





SUBNUCLEAR ORGANELLES



Supplementary figure 3.

interactors).

overexpression of PtdIns(4)P-5-kinase on the PtdIns(4,5)P2 probe, eYFP-PH-PLC (strong plasma membrane enrichment and colocalization) (A) and of serum stimulation on a PtdIns(3,4,5)P3 probe, eGFP-PH-Akt (B). For quantitative data and further explanation see main text. (C) In contrast, these treatments

Control fluorescence microscopy experiments in MCF-7 cells illustrating the effectiveness of the

have no effect on eYFP-PDZ1S1-PDZ fusion constructs showing discrete plasma membrane localization. PtdIns(4)P-5-kinase expression is shown in the insets. (D-F) Control experiments showing that the effect

of various treatments affecting PtdIns(4,5)P2 levels have similar effect on eYFP-CASK-CASK than on eYFP-S1PDZ1-CASK (D,E,F to compare with E,F,G in main Figure 3). (G) Additional exemples illustrating the effect of mCherry-PLC∆NES (shown in the insets) on the subnuclear localization of eYFP-PDZ1-SNTG1(a relatively good *in vitro* PtdInsPs interactor) (for control image see Fig S1) and the lack of effect on the subnuclear localization of eYFP-PDZ1-DFNB31_3 and eYFP-PDZ1-MPDZ_6 (two poor PtdInPs