

Supplemental Figure 1. Regulation of wild-type and spPH mutants of PLC γ 1 and PLC γ 2 by Δ N-Vav1.

COS-7 cells were cotransfected as indicated with empty vector (*Control*), vectors encoding wild-type Rac2 (250 ng per well), Δ N-Vav1 (500 ng per well), and/or wild-type or mutant PLC γ isozymes. The amounts of vectors encoding the PLC γ isozymes were adjusted according to their basal activities shown in the left panel of Fig. 3B and Fig. 7B: PLC γ 1-111, 300 ng per well; PLC γ 2-222, 1000 ng per well; PLC γ 1-122, 10 ng per well; PLC γ 2-211, 1000 ng per well, and PLC γ 2-F897Q, 1000 ng per well. The total amount of DNA was maintained constant at 1.75 μ g per well in each transfection by adding empty vector. *Top panel*, cells from one well were lysed in 200 μ l of SDS-PAGE sample preparation buffer. An aliquot (25 μ l) of the lysate was subjected to SDS-PAGE, and immunoblotting was performed using an antibody reactive with the c-myc epitope. In additional experiments (results not shown), it was found that PLC γ 1-122 was in fact present, albeit at much lower levels in transfected COS-7 cells, and that Δ N-Vav 1 was present at the same level in cells transfected with the corresponding vector.

Supplemental Figure 2. Membrane localization of chimeric PLC γ proteins.

COS-7 cells were seeded on 10 cm cell culture plates (2×10^6 cells/plate) and transfected with 15 μ g per plate of vector encoding wild-type PLC γ 1 (*1-111*), wild-type PLC γ 2 (*2-222*) or the chimeric mutants PLC γ 1-121 (*1-121*), PLC γ 1-112 (*1-112*), PLC γ 1-122 (*1-122*), PLC γ 2-212 (*2-212*), PLC γ 2-221 (*2-221*), or PLC γ 2-211 (*2-211*). All PLC γ polypeptides contain a c-myc epitope tag at their carboxyl terminus. Forty-eight hours after transfection, the cells were harvested, homogenized, and fractionated into postnuclear soluble (*S*) and particulate (*P*) constituents. Aliquots of the fractions containing 50 μ g of protein were subjected to SDS-PAGE, and immunoblotting was performed using antibodies reactive against the c-myc epitope (PLC γ) and G β_{1-4} (G β) as a marker for the particulate fraction containing plasma membranes of transfected cells.

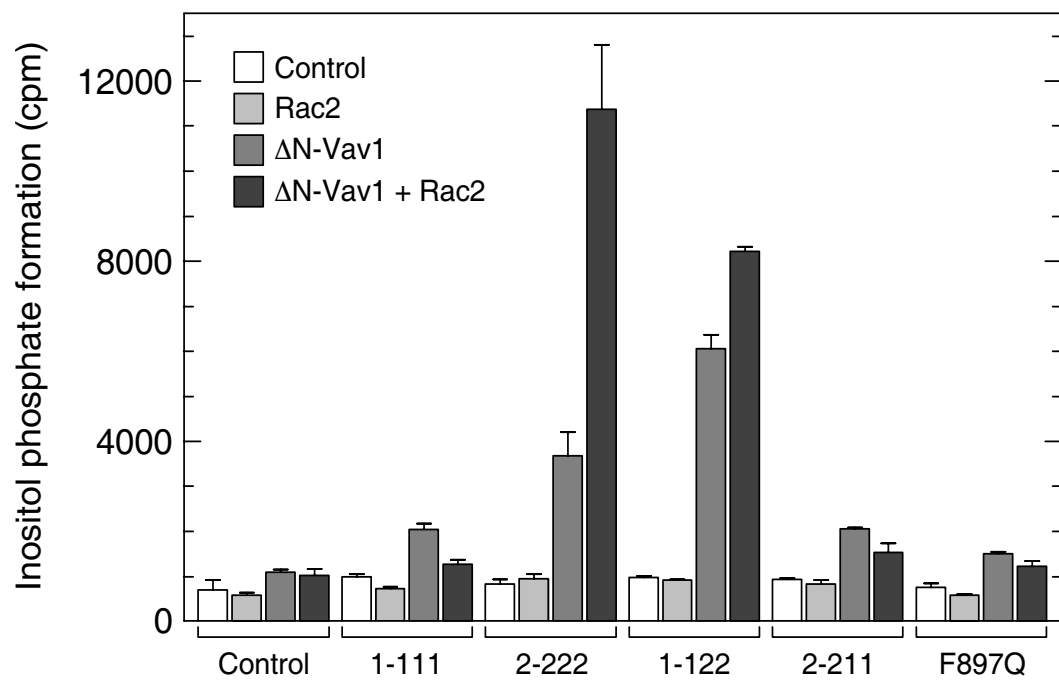


Figure S1

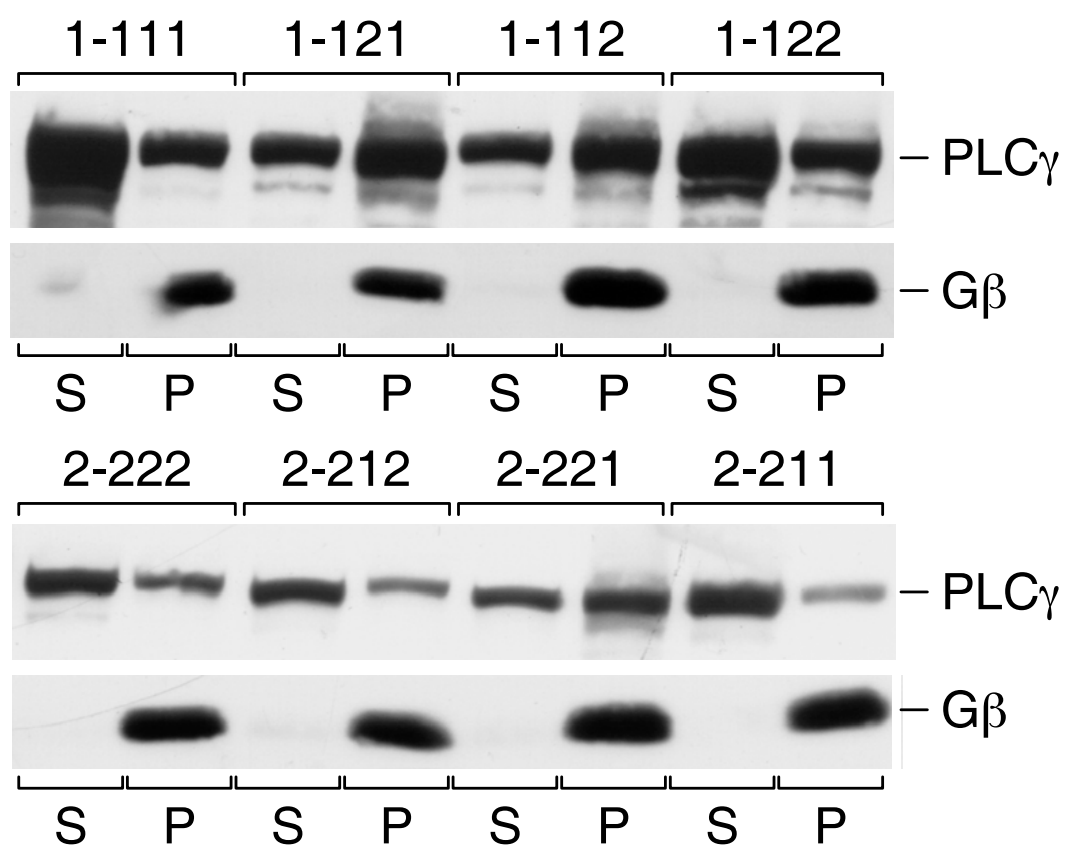


Figure S2