

Figure 3 - source data 1 Membrane partitioning of cPLA2 α C2-domains and cPLA2 α catalytic activity with point mutated C2-domains in PC binding region.

Figure 3A

C2 domain conc. (μ M)	C2 WT	Y96F	Y96A	N65D
0.00	0.00	0.00	0.00	0.00
0.10	10.72	10.43	1.89	2.63
0.20	26.35	23.37	4.12	5.81
0.40	44.29	43.70	9.18	9.90
0.60	57.12	51.53	13.41	14.22
1.00	68.78	58.39	18.31	20.94
2.00	79.89	67.15	28.58	32.01
4.00	84.69	75.06	39.52	43.39

Figure 3B

[Ca ²⁺] (μ M)	C2 WT	Y96F	Y96A	N65D
0.00	0.00	0.00	0.00	0.00
0.22	0.01	0.02	-0.01	-0.01
0.60	0.07	0.03	0.03	0.03
1.00	0.15	0.07	0.03	0.05
2.20	0.52	0.13	0.05	0.11
6.00	0.87	0.54	0.16	0.28
10.00	0.93	0.66	0.24	0.32
22.00	0.96	0.70	0.31	0.48
60.00	0.97	0.81	0.36	0.67
100.00	0.98	0.78	0.43	0.69
220.00	1.00	0.84	0.47	0.74

Figure 3C

lipid Conc. (μ M)	C2 WT	Y96F	Y96A	N65D
0.00	0.00	0.00	0.00	0.00
0.44	0.21	0.21	0.05	0.06
0.72	0.40	0.38	0.09	0.10
1.20	0.44	0.38	0.21	0.21
2.00	0.66	0.64	0.30	0.29
4.40	0.95	0.84	0.51	0.64
7.20	1.12	0.96	0.70	0.81
12.00	1.14	1.10	0.83	0.92
20.00	1.22	1.11	0.97	1.00

Figure 3D

	Affinity	SD
WT	1.00	0.10
Y96A	0.27	0.04
Y96F	0.99	0.09
N65D	0.35	0.02