

Figure 6, supplement 1

Figure 6-S1. Ca^{2+} binding site differences in synaptotagmin-1 C2A domain versus cPLA2 C2-domain complexed with DHPC.

cPLA2 C2-domain (green) is shown with bound Ca^{2+} (green) and bound DHPC (yellow). Both Ca_4 and Ca^{PC} are directly involved in DHPC binding.

Synaptotagmin-1 C2A domain (beige) also binds three Ca^{2+} atoms (plum) (PBD:1BYN). Only one Ca^{2+} binding site (Ca_1) overlaps with cPLA2 C2-domain. In contrast, all three Ca^{2+} binding positions in synaptotagmin-1 C2B domain (Fig. 6C) overlap with those in synaptotagmin-1 C2A. Ca^{2+} binding site identification corresponds with the numbering system of Sudhoff & Rizo (1998).

