

Fig. 1. The PP2A:B55-FAM122A quadruple complex. A. SDS-PAGE gel of PP2A:B55 (PP2Aa/PP2Ac/B55; subunits expressed in mammalian or E. coli cells; purified using 4 purification steps) bound to FAM122A (FAM122A stains weakly). **B.** Representative 2D class averages of the final PP2A:B55-FAM122A quadruple complex. **C.** CryoEM map of the consensus 3D refinement (2.55 Å) and figures illustrating the refine structure (including the map at the PP2Ac active site, which had clear evidence for both metals.

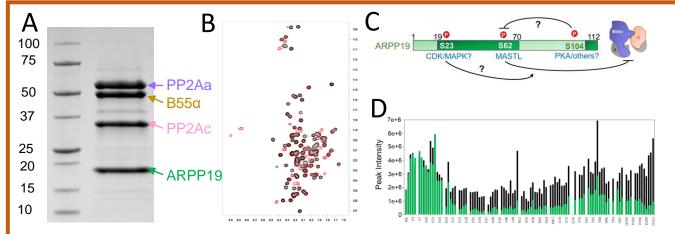
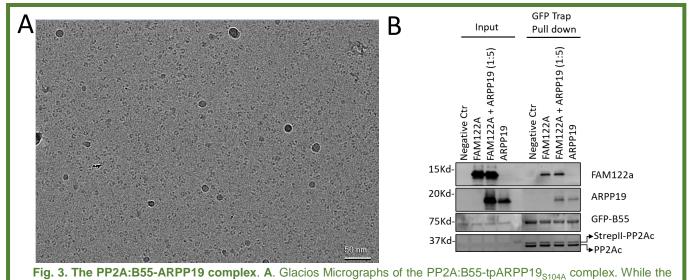


Fig. 2. The PP2A:B55-ARPP19 quadruple complex. A. SDS-PAGE gel of PP2A:B55 (PP2Aa/PP2Ac/B55; subunits expressed in mammalian or E. coli cells; purified using 4 purification steps) bound to ARPP19. **B.** Overlay of the 2D [¹H,¹⁵N] HSQC spectra of ¹⁵N-ARPP19 incubated with (red) or without (black) the MASTL kinase, demonstrating S62 is fully phosphorylated. **C.** Domain organization of ARPP19, potential phosphorylation sites and PP2A-triple complex cartoon. **D.** Peak intensity comparison between free ¹⁵N-ARPP19 (black) and ¹⁵N-ARPP19 bound to the PP2A:B55 triple complex (green). ARPP19 residues 19-112 bind PP2A:B55.



sample is homogeneous and well-distributed, subsequent processing showed that the particle distribution is not suitable for 3D reconstruction; thus we require more screening of distinctly prepared samples. **B.** ARPP19 and FAM122A can bind PP2A-B55 simultaneously demonstrating that they do not use the same mechanism of binding.