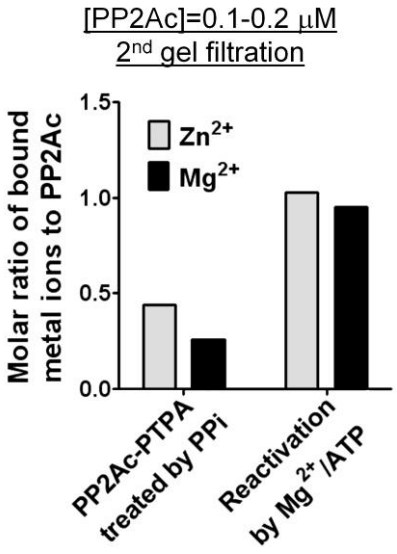

Fig. S6. Metal contents of PP2Ai-PTPA before and after activation by Mg^{2+}/ATP. PP2Ac-PTPA exchanged for Zn^{2+} was treated by PPi, followed by removal of free metal ions by gel filtration. The inactive complex was re-activated by Mg^{2+}/ATP followed by addition of two molar excess of okadaic acid and removal of free Mg^{2+}/ATP by gel filtration. The level of metal ions associated with PP2Ai-PTPA and the re-activated metalloenzyme bound to okadaic acid was determined by ICP-MS after replacement of buffer with "metal free" water by 2nd gel filtration chromatography. The increased Zn^{2+} occupancy of the re-activated enzyme is likely due to binding of, or replacement of bound Mg^{2+} by scavenging metal ions remained in the "metal free" solutions during activation and two rounds of gel filtration chromatography prior to ICP-MS analysis.