Monteverde et al.

Supplemental Information

Figure S1: Calcium activation of NUAK1 and NUAK2 in HeLa cells

A) Lysates from HeLa cells treated with 6μ M A23187 on the presence or absence of the NUAK1-selective inhibitor HTH-01-015 (10 μ M for 1 hr) or the NUAK1/NUAK2 inhibitor WZ4003 (10 μ M for 1 hr), probed for phosphor-S445 and total MYPT1. **B)** Lysates from HeLa cells infected with siRNA targeting NUAK2 or non-targeting (-), and treated as above with 6μ M A23187 and/or HTH-01-015 (10 μ M for 1 hr), blotted for phosphor-S445 and total MYPT1. Densitometry of the p-S445 MYPT1 blot shown above. Note that the first 4 lanes are the same images as shown in Main Figure 2C. N=3 experiments.

Figure S2: Regulation of NUAK1 protein levels by PKC α

A) Immunoblot of NUAK1 protein expression in HeLa cells upon depletion of PKC α , followed by treatment with proteasome inhibitor MG132 (20 μ M for 5hrs). **B)** Mean and SD fold decrease in NUAK1 protein expression after PKC α depletion in the presence or absence of proteasome inhibitor MG132. N=3. NS = not statistically significant. **C)** Q-PCR measurement of NUAK1 mRNA levels in HeLa cells transfected with either of 2 siRNAs targeting PKC α or non-targeting control. Error bars show SD of technical triplicates. N=2. **D)** Anti-FLAG immunoprecipitates from HeLa cells transfected with anti-phospho-AMPK^{T172} antibody, which cross-reacts with overexpressed NUAK1. N=2.









