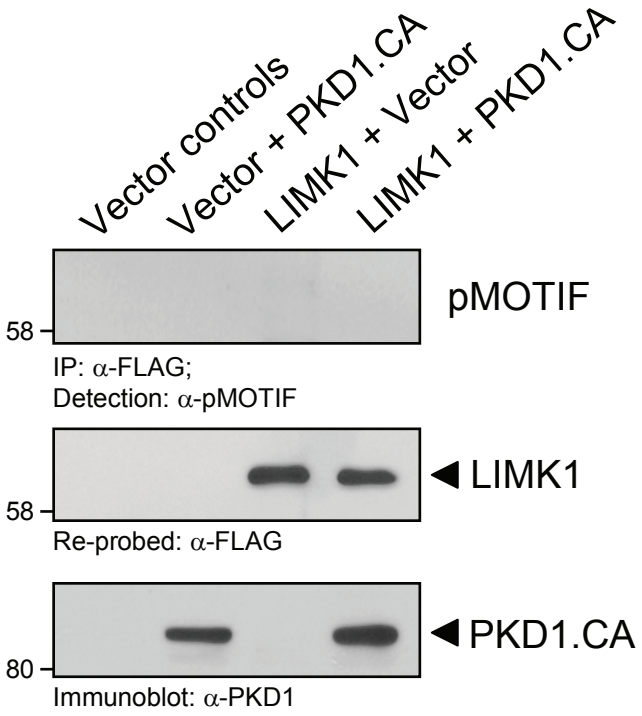
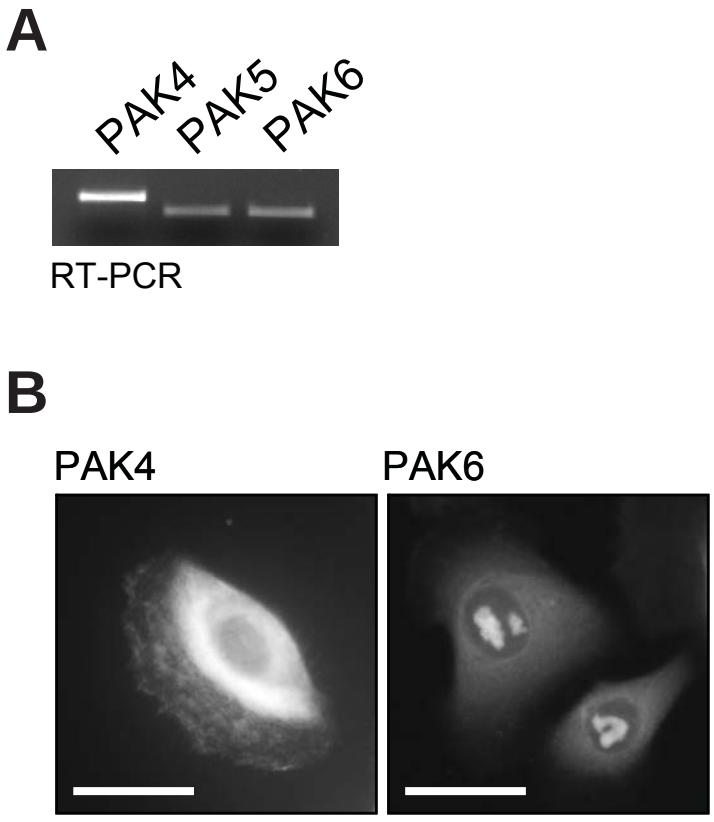
Supplemental Figure 1



Suppl. Fig. 1: **LIMK is not a PKD target.** HeLa cells (0.65 x 10^6 cells, 6 cm dish) were transfected with vector controls, FLAG-tagged LIMK1 or constitutively-active PKD1 as indicated. LIMK1 was immunoprecipitated (α-FLAG) and analyzed for PKD-mediated phosphorylations using the pMOTIF antibody that is specific for phosphorylated PKD substrates. Samples were stripped and re-probed for LIMK1 using α-FLAG antibodies. Lysates were analyzed by Western blot for PKD1.CA expression.

Supplemental Figure 2



Suppl. Fig. 2: **Expression and localization of PAK4 and PAK6. A:** RNA extraction from HuMEC cells followed by RT-PCR using primers against PAK4, 5 and 6. Cellular mRNA isolation was performed using RNA-Bee from TEL-TEST (Friendswood, TX) according to the manufacturers instructions and was transcribed into cDNA using the following transcription reaction; 1 µl oligo dT primer and 2µl RNA were incubated in a total of 2 µl water at 70 °C for 5 minutes. Then, 5X buffer, 1 µl RNAsin, 1 µl dNTP mix, 2.4 µl $MgCl_2$ and 1µl reverse transcriptase, all from Promega (Madison, WI) were added to a total volume of 20 µl. The resulting cDNA pool was subjected to PCR analysis using specific primer sets. Primer pairs used were: 5'-ACACCAGGATGAACGAGGAG-3' and 5'-TTGTGCAGGTTCTTCAGTCG-3' for a 394 bp fragment of PAK4, 5'-TGCTTTCGGTAGAGCTGGAT-3' and 5'-TTGTATGCCACTGAGGTGGA-3' for a 302 bp fragment of PAK5, 5'-TTGTATGCCACTGAGGTGGA-3' and 5'-TGCTTTCGGTAGAGCTGGAT-3' for a 302 bp fragment of PAK6. **B:** HuMEC cells ($1x10^4$ cells, ibiTreat µ-slide) were subjected to indirect immunofluorescence analysis. Samples were indirectly labelled with α-PAK4 (Abcam ab62509, dilution: 1:200) or α-PAK6 (Abcam ab62511, dilution: 1:200) and secondary Alexa Fluor 546 anti-rabbit antibodies (dilution: 1:800).