**Figure S1.** The nucleotide and deduced amino acid sequences of *NlAKTIP*. The deduced amino acid sequence is shown below the cDNA sequence. The start and stop codons are shown in boldface, and an asterisk represents the position of the stop codons.

**Figure S2.** Test of the AKTIP antibody specificity. The polyclonal rabbit antibody is generated by PolyExpress™ Antibody Service.
Figure S3. Gene expression profile of the insulin/AKT/mTOR signaling pathway in BPH. Boxes highlighted in green correspond to down-regulated genes, while the red box indicates up-regulated genes in the Rh colony compared with the Tn colony. Solid line and black arrows represent for directly stimulatory modification; Dotted line with black arrow represent for indirectly stimulatory modification; Dotted line with white arrow represent for translocation.