Supplementary Figure 2. PAK inhibition by PAK18 in hippocampal neurons. PAK activity was reduced in PAK18-treated hippocampal neurons indexed by the levels of pPAK in the Western blot, while the inactive control peptide PAK18-R192A (R192A) had no impact, demonstrating the activity of the inhibitor (a). PAK inhibition by PAK18 also led to reduced drebrin levels, while synaptophysin, total PAK and cofillin levels were unchanged. * P < 0.05 compared to control. Immunoprecipitation with a β-actin antibody and detection with a drebrin antibody on Western blot revealed a marked decrease in drebrin-actin binding after PAK inhibition by PAK18. Error bars indicate s.e.m. (b). PAK18 caused punctate neuritic cofillin immunocytochemical staining suggesting cofillin pathology (c). Scale bar = 50µm.