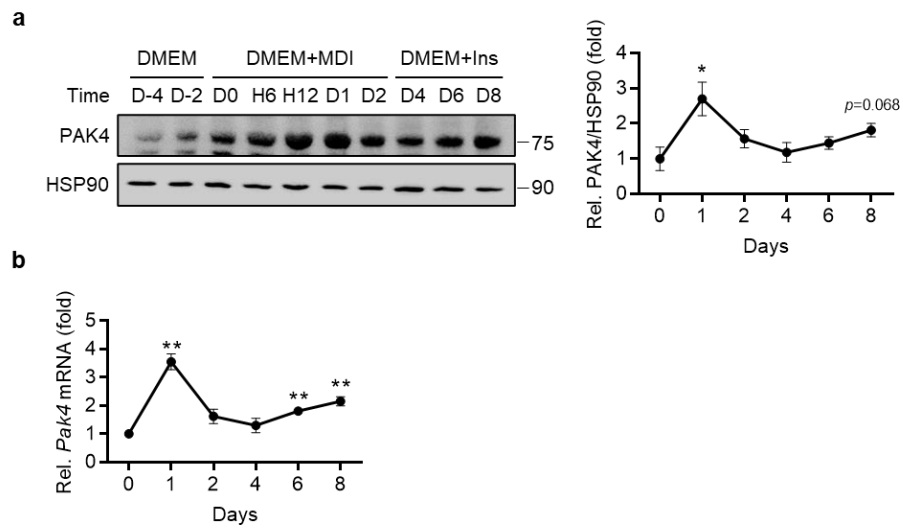
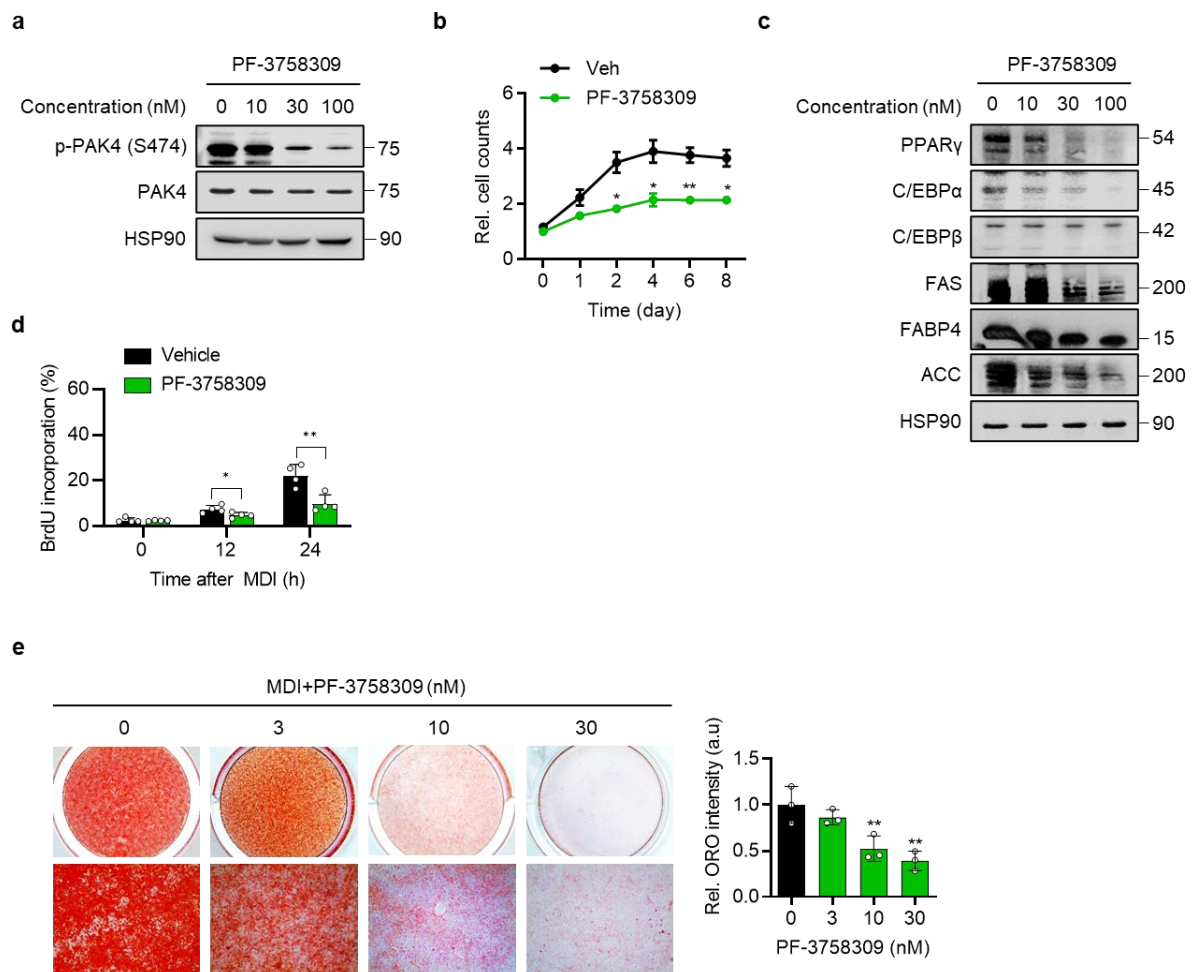


Supplementary Figures



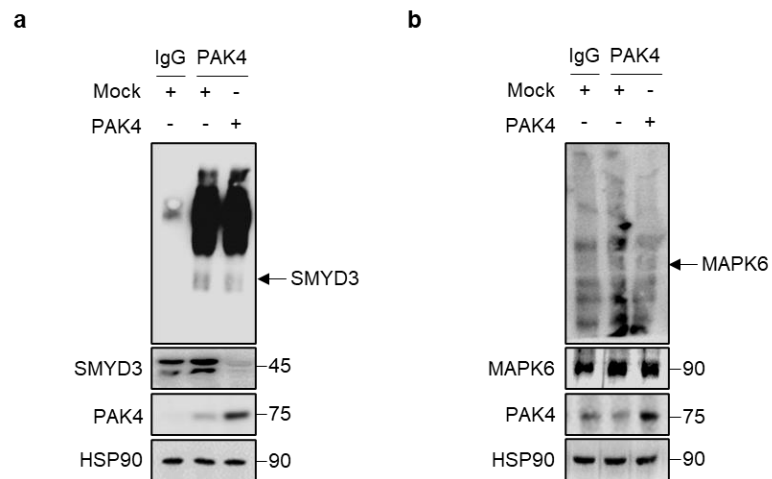
Supplementary Figure 1. PAK4 expression changes during various stages of adipogenesis

in 3T3-L1 cells. a. Protein levels of PAK4 in 3T3-L1 cells induced to differentiate with MDI or insulin (Ins, 10 μ g/ml) for the specified time periods were analyzed by Western blotting, with protein density quantified ($n = 4$). **b.** Quantitative was performed to assess *Pak4* mRNA levels following MDI treatment at the indicated time points ($n = 4$). Values are mean \pm SD. *, $p < 0.05$.



Supplementary Figure 2. Inhibition of adipogenesis by the PAK4 inhibitor PF-3758309.

a-c. 3T3-L1 preadipocytes were treated with various concentrations of PF-3758309 for 24 h (a) or 8 days (c) or 10 nM PF-3758309 for different time periods (b), and the effects on PAK4 suppression, cell proliferation, and adipogenesis marker protein levels were evaluated. **d.** 3T3-L1 preadipocytes were treated with MDI for 12 or 24 h with or without 10 nM PF-3758309, and the percentage of BrdU incorporation was measured ($n = 4$) was determined. **e.** After 8 days of differentiation, representative images from each group were captured following Oil Red O staining to assess lipid accumulation. Values are mean \pm SD. *, $p < 0.05$ and **, $p < 0.01$.



Supplementary Figure 3. No interaction between PAK4 and either SMYD3 or MAPK5.

a. b. Following transfection of 3T3-L1 preadipocytes as indicated, co-IP was conducted to assess the physical interactions between PAK4 and SMYD3 (a) and between PAK4 and MAPK6 (b).