

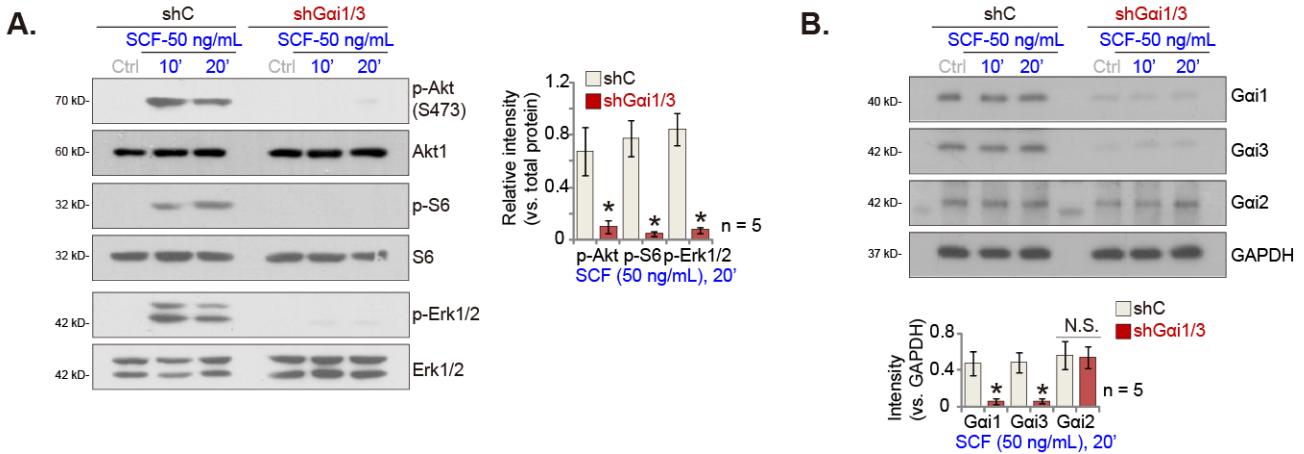
Figure S1

Figure S1. Gai1 and Gai3 are required for SCF-induced Akt-mTOR and Erk activation in MEFs. WT MEFs, with the lentiviral Gai1 (murine) shRNA plus the lentiviral Gai3 (murine) shRNA (“shGai1/3”) (**A-B**) or the scramble control shRNA (“shC”) (**A-B**), were cultivated and treated with SCF (50 ng/mL) for designated time, listed proteins were tested (**A-B**); Gai1/2/3 protein expression and protein phosphorylation were quantified (**A-B**). “Ctrl” stands for PBS treatment. * $P < 0.05$ versus “shC”. “N. S.” stands for $P > 0.05$.

Figure S2

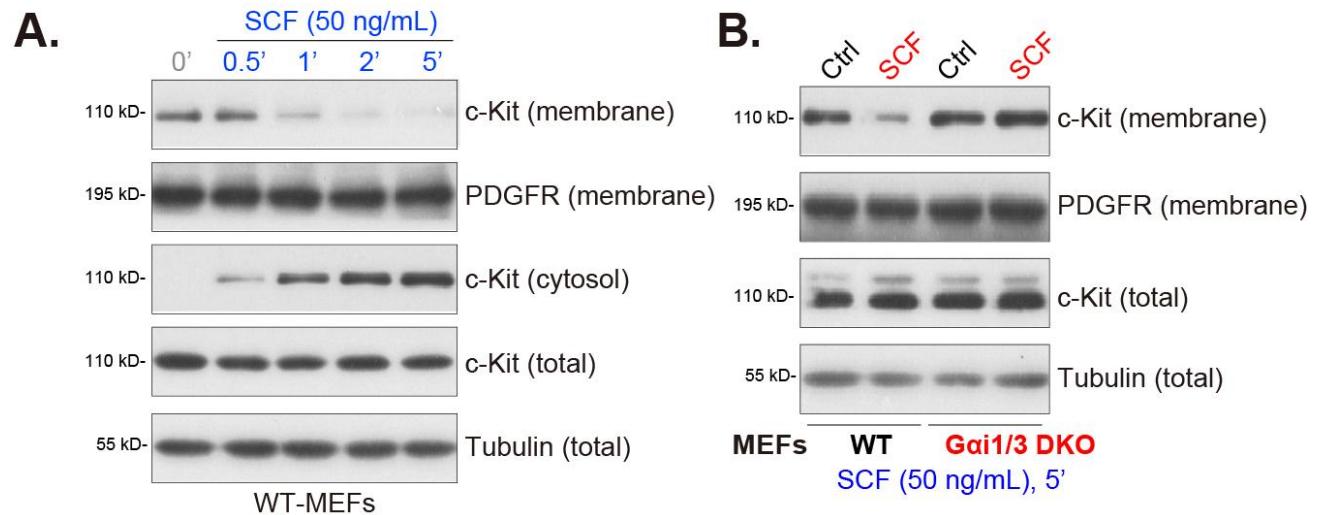


Figure S2. Gai1 and Gai3 are important for SCF-induced membrane c-Kit internalization in MEFs. WT MEFs were treated with SCF (50 ng/mL) for 0.5-5 min, listed proteins in membrane fraction lysates, cytosol fraction lysates and total cell lysates were examined (**A**). WT or Gai1/3 DKO MEFs were treated with SCF (50 ng/mL) for 5 min, listed proteins in membrane fraction lysates and total cell lysates were examined (**B**). “Ctrl” stands for PBS treatment.

Figure S3.

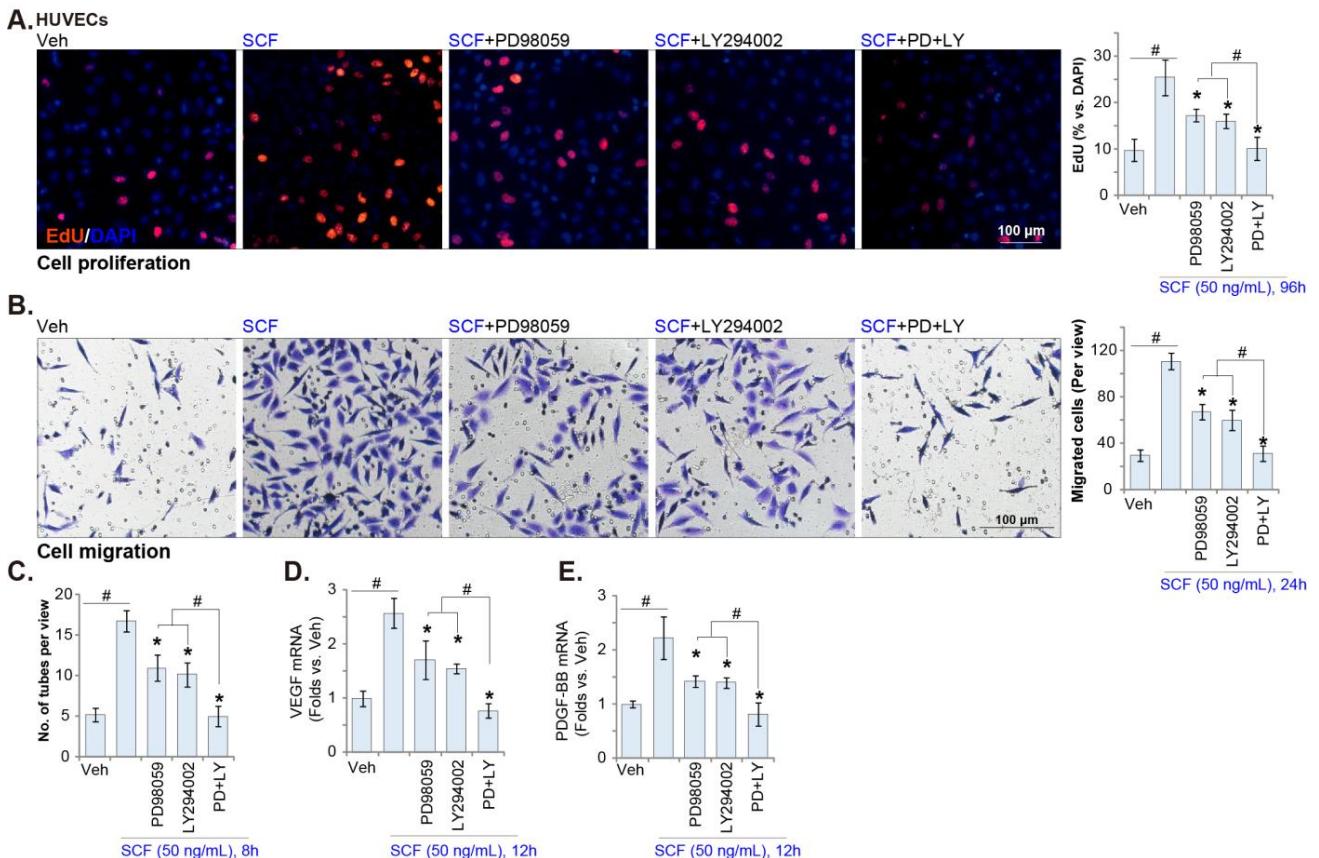


Figure S3. PI3K-Akt-mTOR and Erk inhibition suppresses SCF-induced pro-angiogenic activity in HUVECs. HUVECs were pretreated with PD98059 ($5 \mu M$), LY294002 ($5 \mu M$) or PD98059 plus LY294002 (“PD+LY”) for 30 min, followed by SCF (50 ng/mL) treatment; HUVECs were cultivated for applied time periods, cell proliferation (A), migration (B) and formed tubes (C) were tested. Expression of listed mRNAs was examined (D and E). “Veh” stands for vehicle control group. * $P < 0.05$ versus “SCF” only treatment. # $P < 0.05$. Scale bar = 100 μm .

Figure S4.

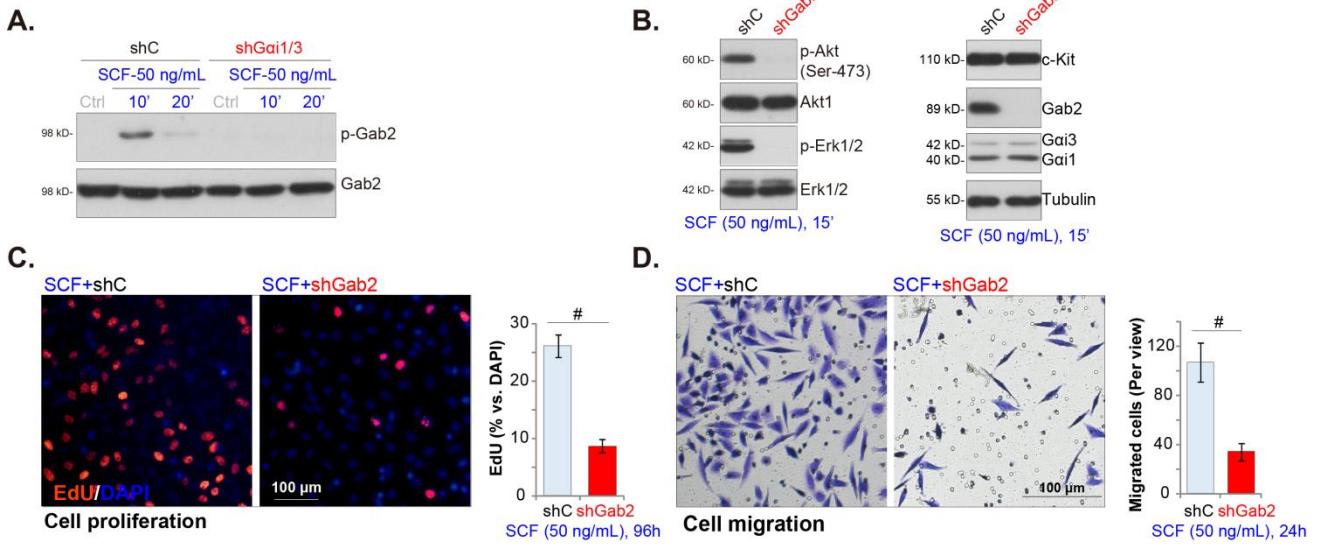


Figure S4. Gab2 is vital for SCF-induced signaling and angiogenesis in HUVECs. Stable HUVECs, with the lentiviral human Gai1 shRNA plus lentiviral human Gai3 shRNA (“shGai1/3”) or scramble control shRNA (“shC”), were treated with SCF (50 ng/mL) for 10/20 min, listed proteins were examined (A). Stable HUVECs, with the lentiviral Gab2 shRNA (“shGab2”) or scramble control shRNA (“shC”), were treated with SCF (50 ng/mL) for 15 min, listed proteins were examined (B); HUVECs were further cultivated for applied time, cell proliferation (C) and *in vitro* migration (D) were examined. #P < 0.05. Scale bar = 100 μm.

Figure S5. The uncropped blotting images of the study.

Figure 1

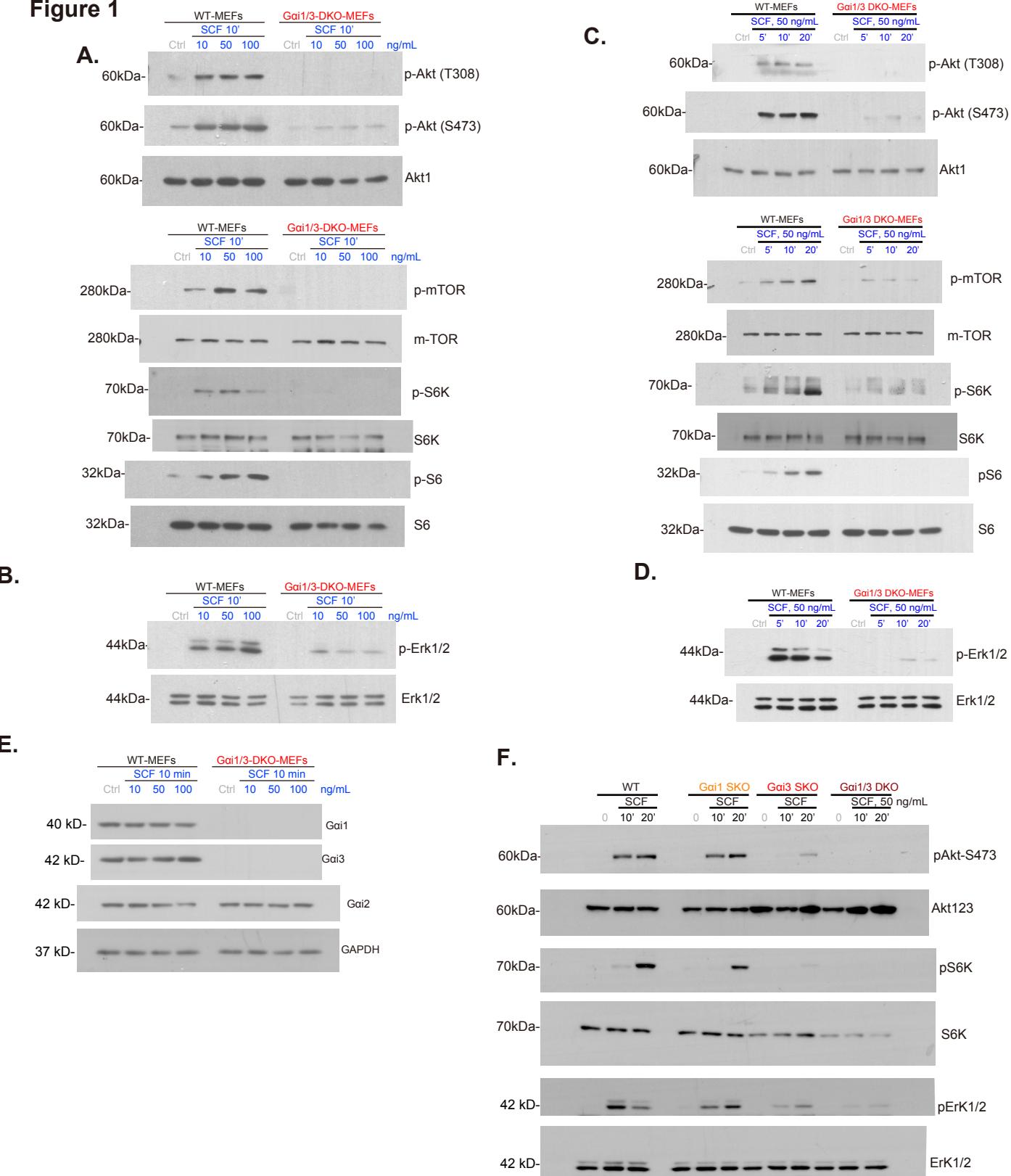


Figure 2

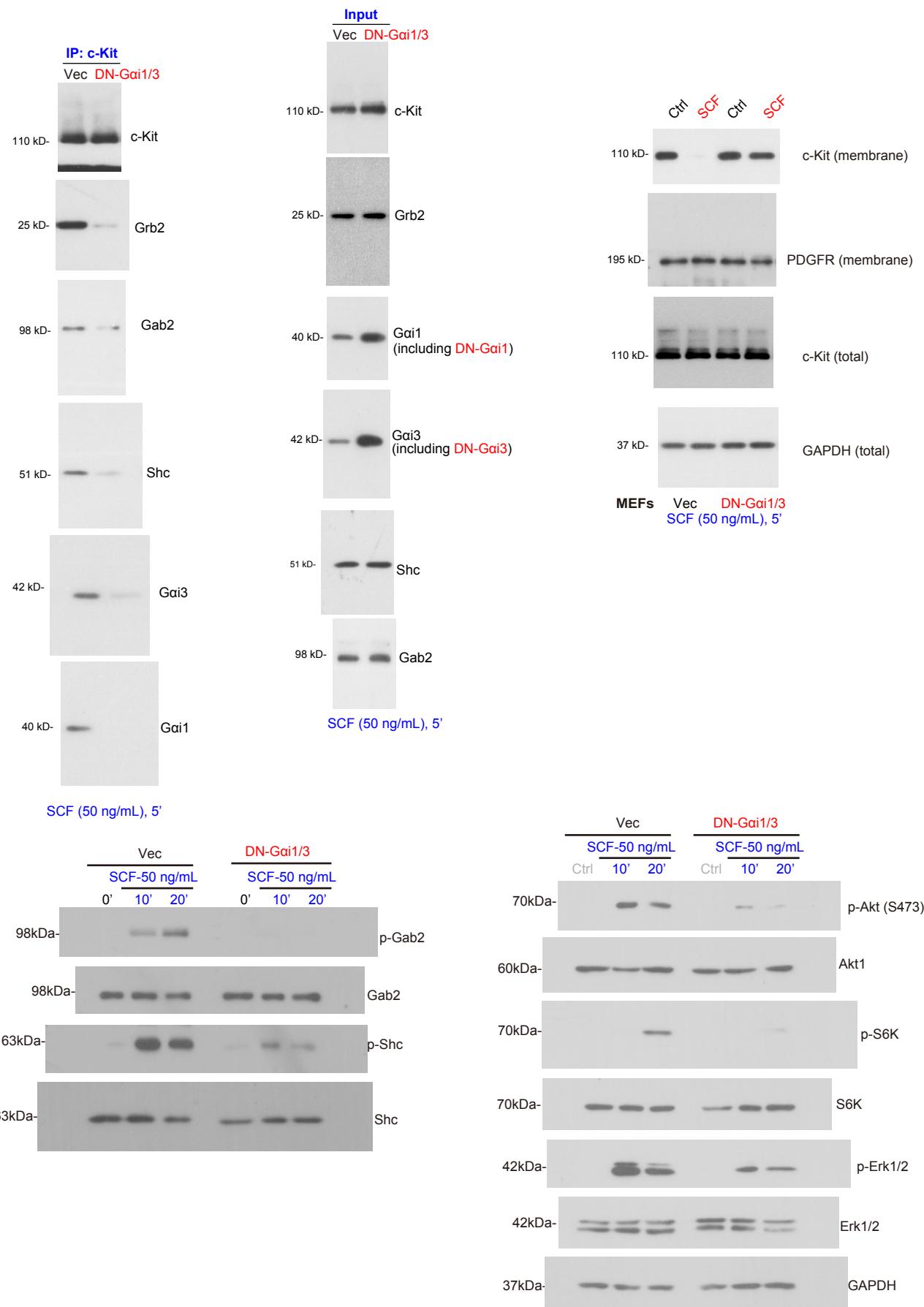


Figure 3.

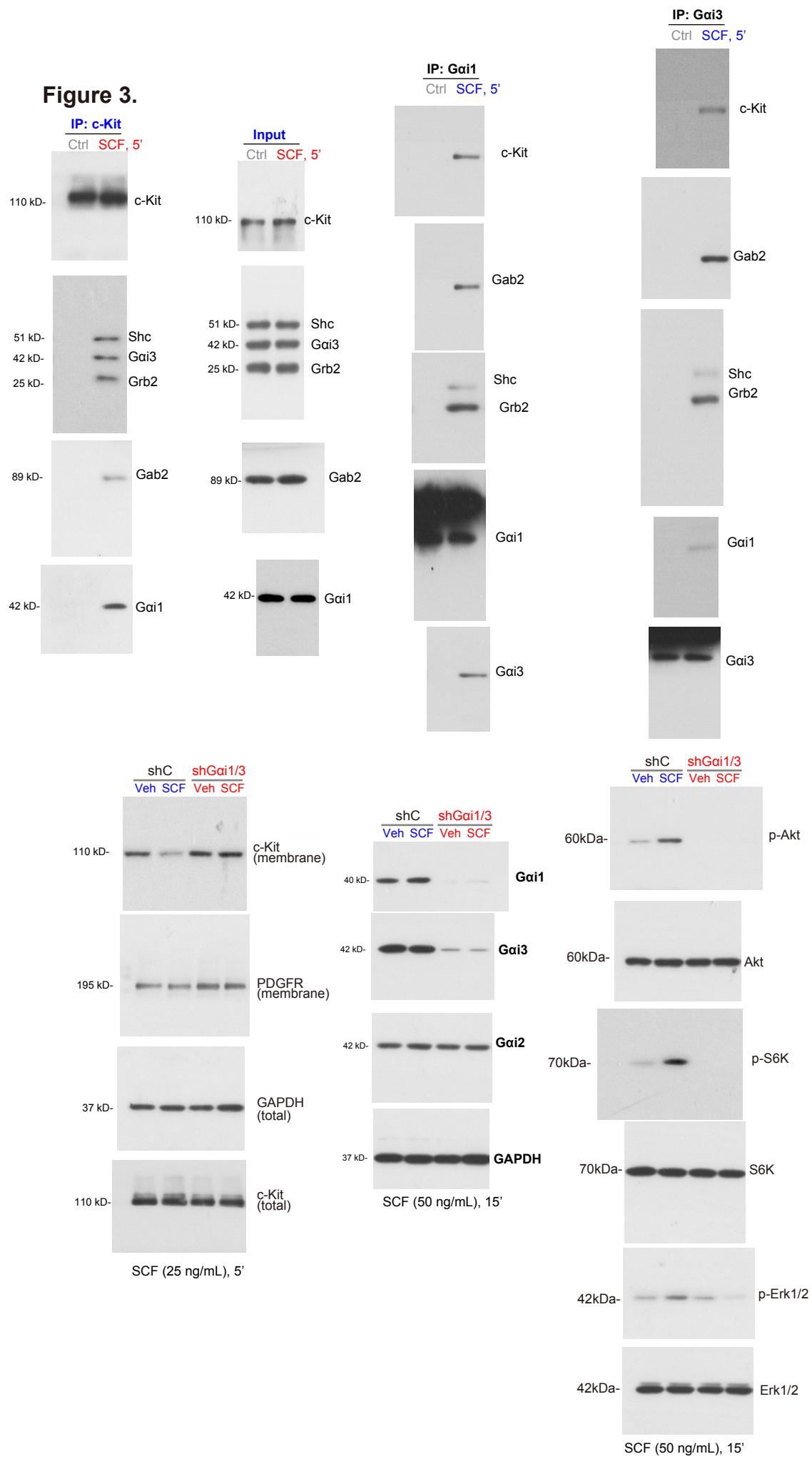


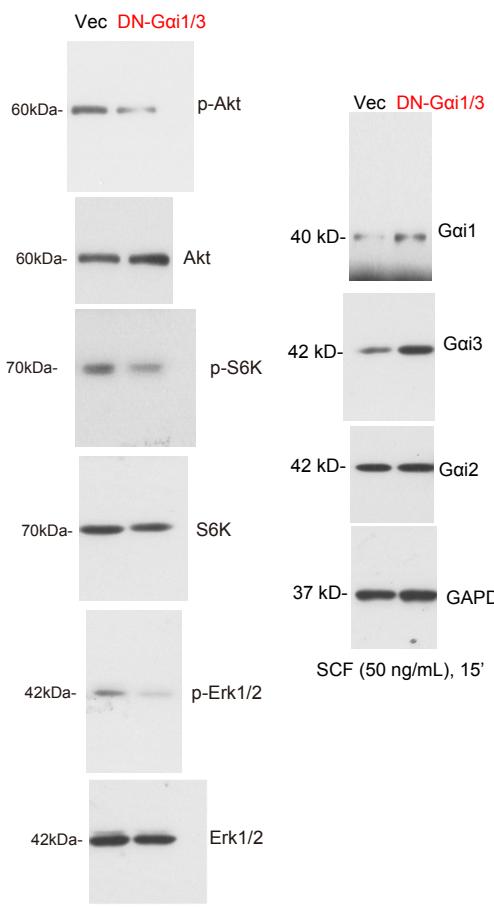
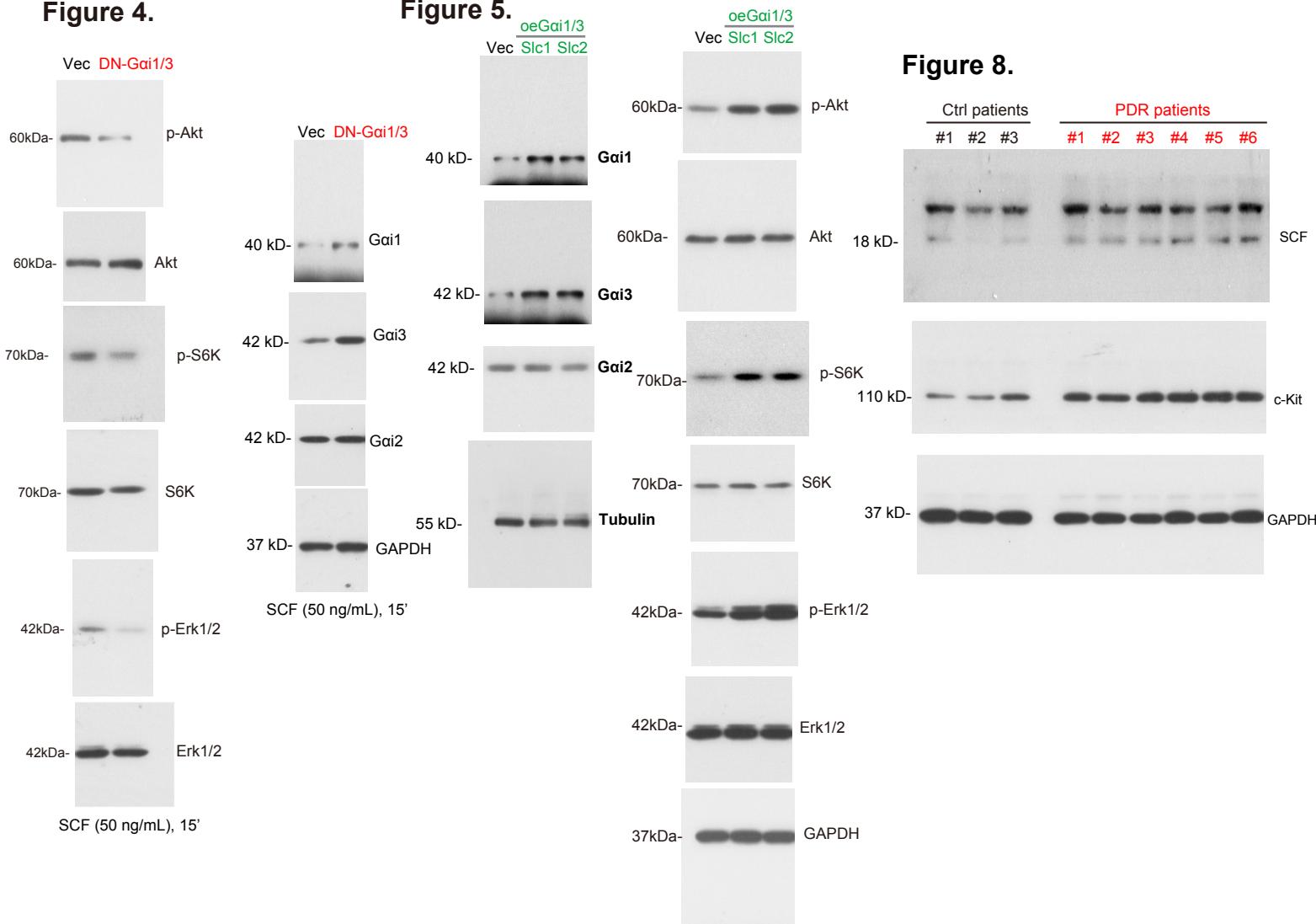
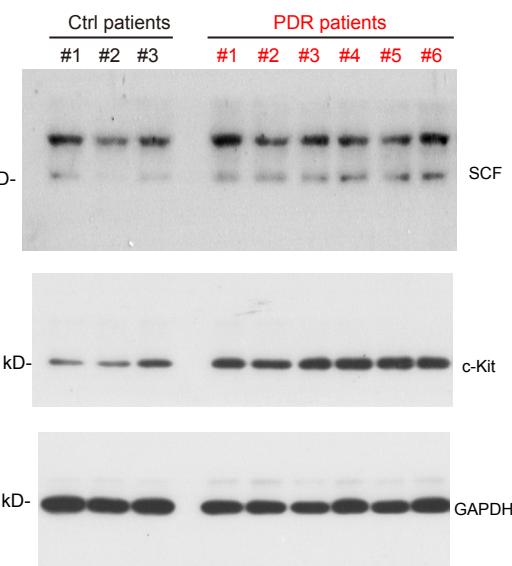
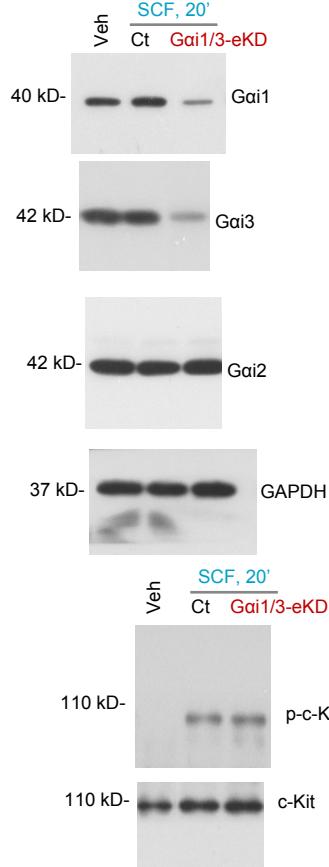
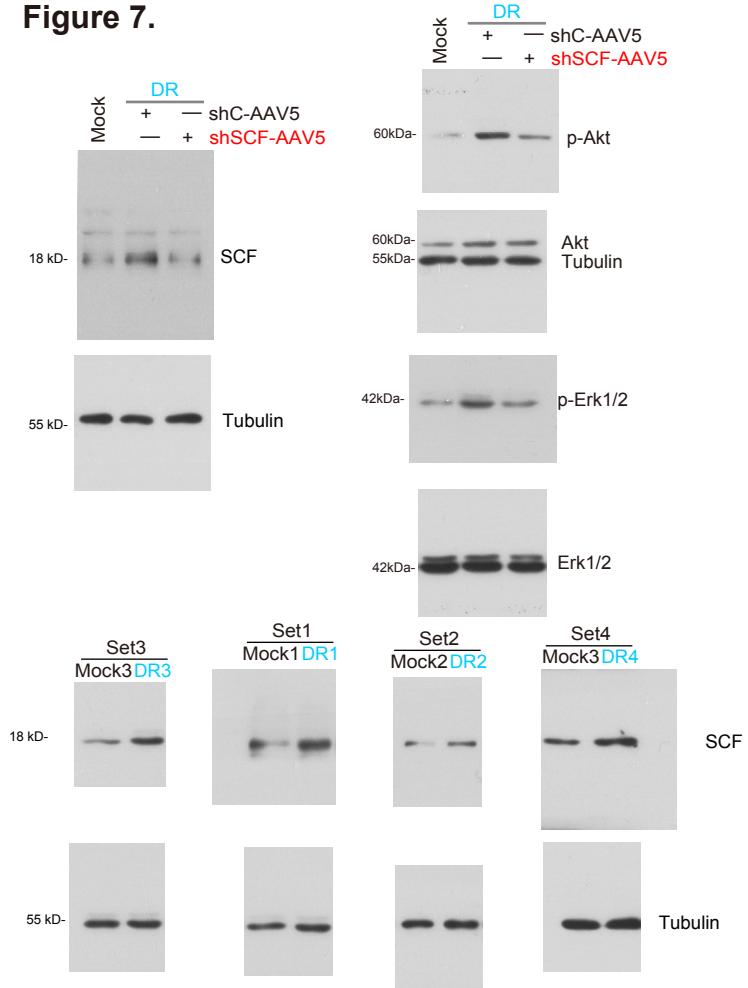
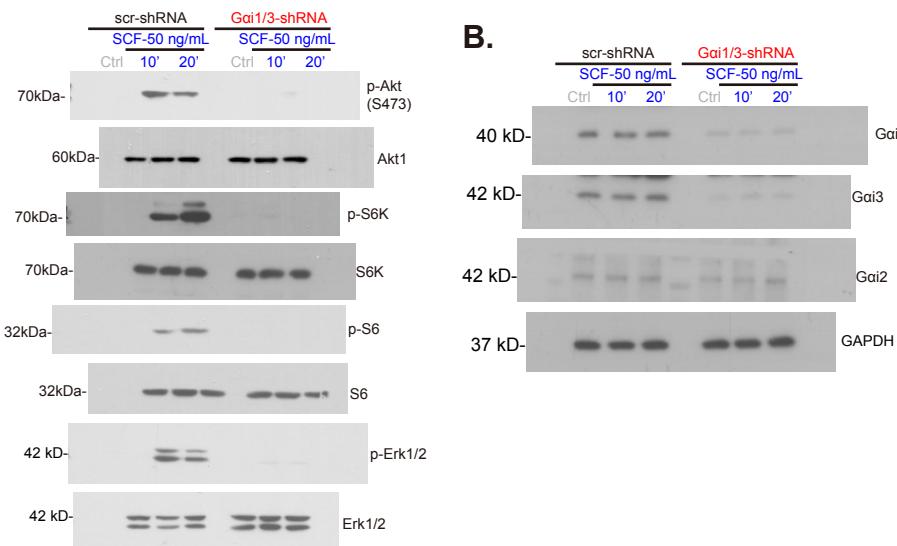
Figure 4.**Figure 5.****Figure 8.****Figure 6****Figure 7.**

Figure S1

A.



B.

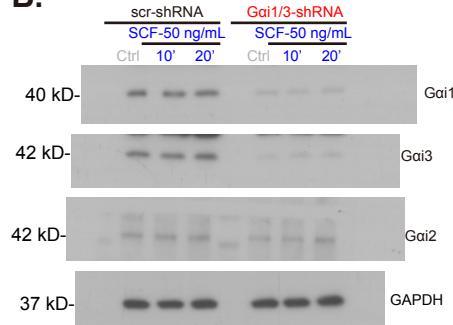


Figure S2

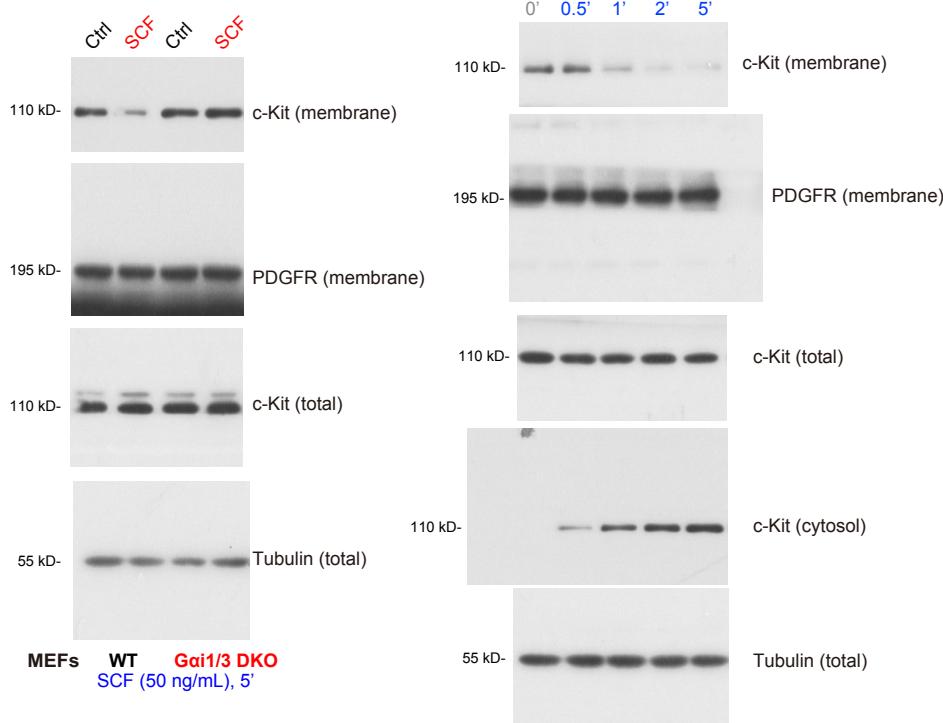


Figure S4.

