



Figure S5. Primary cilia are lost from PC12 cells when the function of SDH, FH or VHL is targeted. **(A)** Confocal images of PC12 cells immunolabelled for detection of primary cilia after 24 hours treatment with DMOG. **(B)** Confocal images of PC12 cells immunolabelled for detection of primary cilia following siRNA mediated knockdown of SDHB. **(C, D)** Immunoblot **(C)** and densitometric analyses **(D)** of total cell lysates from PC12 cells transfected with siRNAs targeting SDHB or non-targeting control siRNAs (Con) and probed with antibodies against SDHB and GAPDH as a loading control. Data were normalised to GAPDH (n=6). **(E)** Confocal images of PC12 cells immunolabelled for detection of primary cilia after 24 hours treatment with malonate alone or with α -ketoglutarate (α -KG) **(F)** Confocal images of PC12 cells immunolabelled for detection of primary cilia after 24 hours treatment with monomethyl fumarate (MMF). **(G)** Confocal images of PC12 cells immunolabelled for detection of primary cilia following siRNA mediated knockdown of FH. **(H, I)** Immunoblot **(H)** and densitometric analyses **(I)** of total cell lysates from PC12 cells transfected with siRNAs targeting FH or non-targeting control siRNAs (Con) and probed with antibodies against FH and β -actin as a loading control. Data were normalised to β -actin (n=6). **(J)** Confocal images of PC12 cells immunolabelled for detection of primary cilia following siRNA mediated knockdown of VHL. **(K, L)** Immunoblot **(K)** and densitometric analyses **(L)** of total cell lysates from PC12 cells transfected with siRNAs targeting VHL or non-targeting control siRNAs (Con) and probed with antibodies against VHL and β -actin as a loading control. Data were normalised to β -actin (n=6). Scale bars = 10 μ m. Error bars indicate 2x SEM. Statistical tests used: t-test (C, H, K). * P<0.05, **P<0.01, ***P<0.001.