Methods

Measurement of oxygen consumption rate (OCR)

OCR were measured using a Seahorse XFp analyzer (Seahorse Bioscience, 103015-100). In brief, cells were plated on Seahorse XFp plates for 12-15 h at a concentration of 2×10^4 cells/well. Cells were washed and incubated with assay medium at 37°C for 1 h in a non-CO_2 incubator. Oligomycin, FCCP and Rotenone & antimycinA were injected into the medium at final concentrations of 1 μM, 0.25 μM, 0.5 μM, respectively. The OCR were automatically recorded and calculated by the Seahorse XFp software as per manufacture's recommendation.

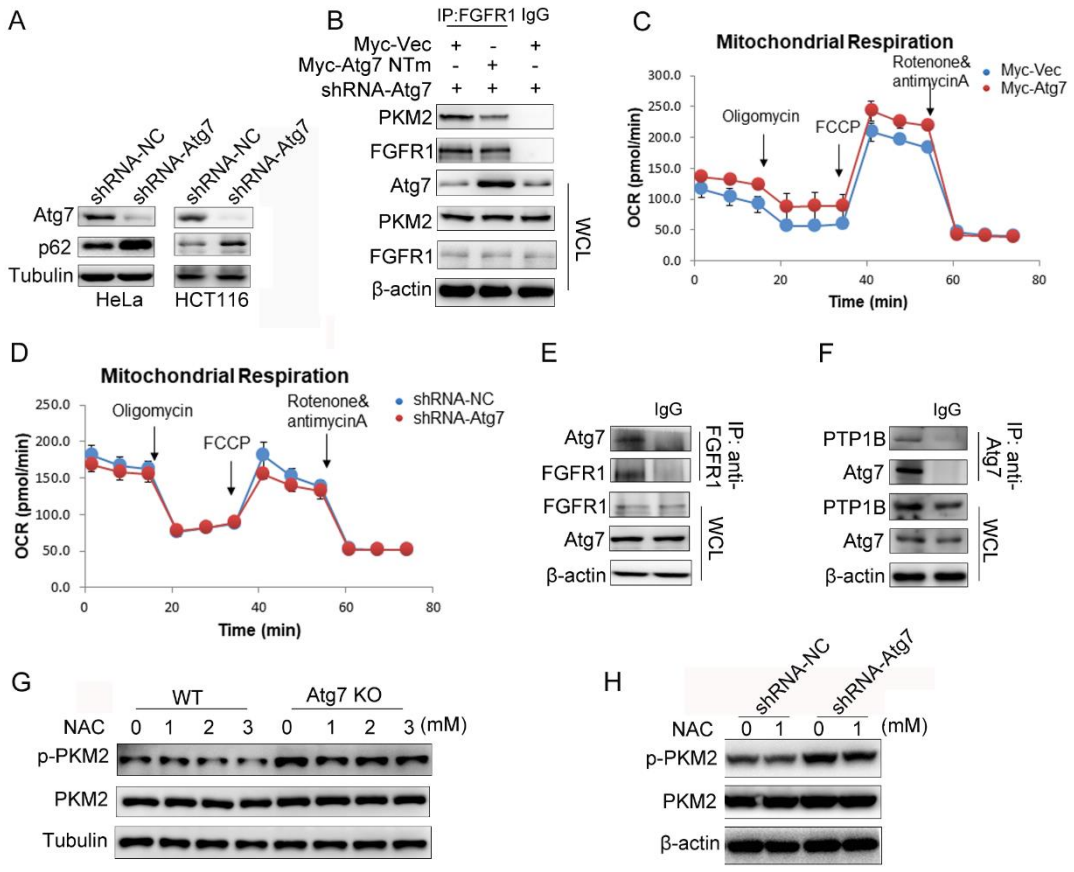

Figure S1. (A) Efficient Atg7 knockdown and its influence on autophagy were analysed by Western blot. (B) Re-expression Atg7 (NTm) in Atg7 knockdown Hela cell and coimmunoprecipitation (IP) of endogenous PKM2 with FGFR1. The OCR of Hela cell expressing Myc-Atg7(C), Hela cell knockdown Atg7(D)

and their control cells. (E) Coimmunoprecipitation (IP) of endogenous Atg7 with FGFR1 in Hela cells. (F) Coimmunoprecipitation (IP) of endogenous PKM2 with PTP1B in Hela cells. (G, H) NAC administration in Atg7 knockout MEF cell (G) and Atg7 knockdown Hela cell (H) with their control cell, Western blot analysis of total and Tyr-105 phosphorylation of PKM2.