

Targeting endogenous proteins for degradation through the affinity-directed protein missile system.

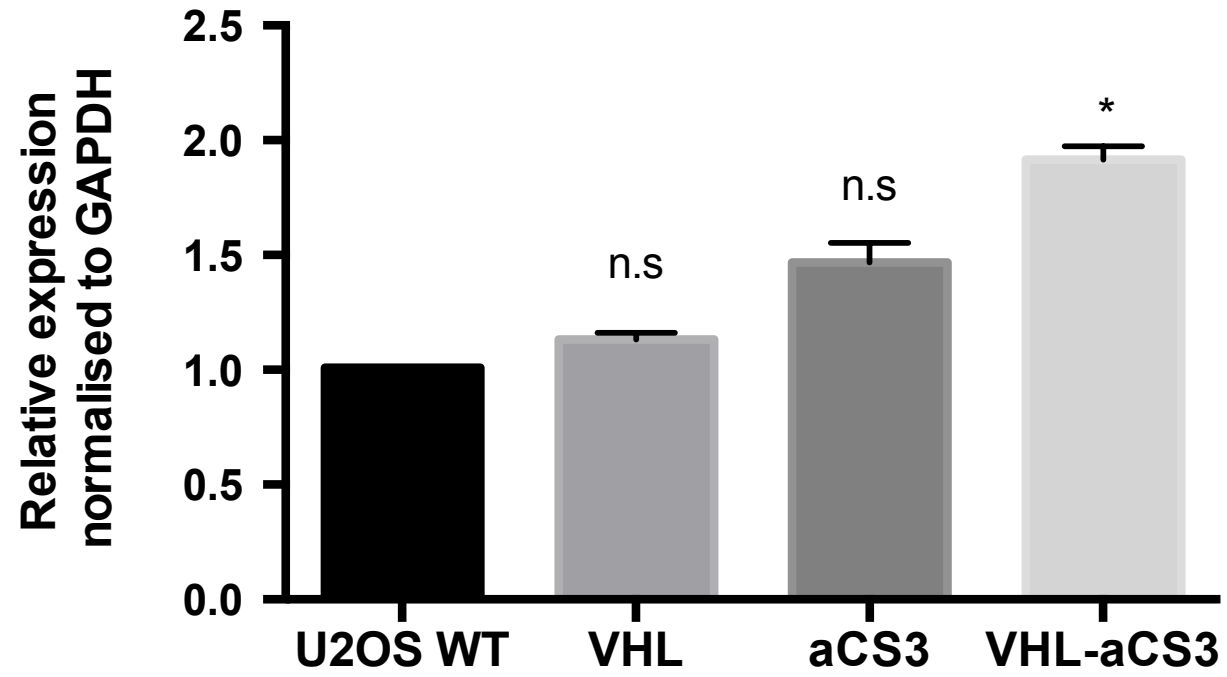
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Electronic Supplementary Material figure legends and figures:

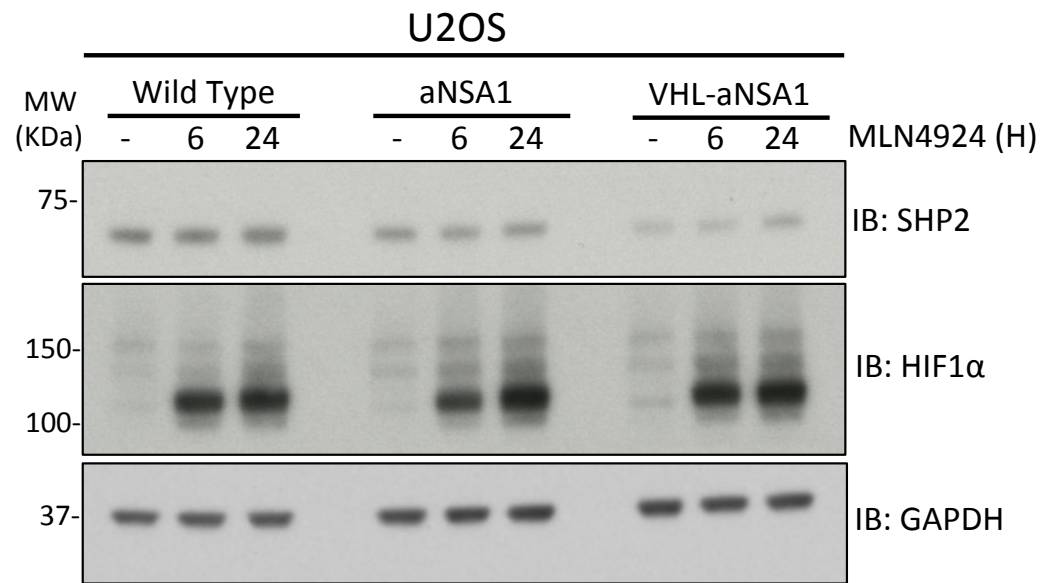
figure S1: Effects of SHP2 AdPROM on SHP2 mRNA levels. MDA-MB-468 cells infected with VHL, aCS3 or VHL-aCS3 retroviruses were lysed and mRNA extracted. Uninfected wild-type (WT) cells were included as controls. Complementary DNA was generated and the q-RTPCR performed to measure SHP2 mRNA transcript levels across the different conditions. SHP2 transcript levels were normalised to GAPDH transcripts. NS and * refer to comparison between VHL, aCS3 or VHL-aCS3 and WT. NS = non-significant. *= P<0.05; N=3.

figure S2: Proteolytic AdPROM employs CUL2-CRL for SHP2 destruction (NSa1). **(a)** Uninfected U2OS cells (WT) or cells infected with retroviruses encoding FLAG-VHL-aNSa1 or control viruses (VHL alone, FLAG-aNSa1 alone) were treated with MLN4924 (1 μ M) for 0, 6 or 24 h. Cells were lysed and extracts (20 μ g protein) were resolved by SDS-PAGE and transferred to PVDF membranes, which were subjected to Western blotting with the indicated antibodies. HIF1 α serves as a positive control for MLN4924 treatment. **(b)** U2OS cells treated with or without MLN4924 (1 μ M) for 24 h were lysed and extracts (1 mg protein) subjected to immunoprecipitation (IP) with anti-FLAG M2 resins. Following elution, both IPs and input extracts (20 μ g protein) were resolved by SDS-PAGE and transferred to PVDF membranes, which were subjected to Western blotting with the indicated antibodies.

SHP2



(a)



(b)

