## S1 Table. Detailed information for selected reagents

## (A) MISSION shRNA constructs (Sigma-Aldrich) used for gene knockdown

Target Gene	TRC Number	Product Details	
SENP3	TRCN0000004109	Region: CDS TRC Version: 1 Sequence:CCGGCCTCGCTGACATTCCACTGGACTCGAGTCCAGTGG AATGTCAGCGAGGTTTTT	
IQGAP2	TRCN0000414490	Region: CDS TRC Version: 2 Sequence:CCGGACTAGAGGTTGCACGATTAAGCTCGAGCTTAATCGT GCAACCTCTAGTTTTTTTG	

## (B) Primary antibodies used for immunoblotting and immonofluorescence staining

Target Protein	Antibody	Vendor
SENP3	SENP3 (D20A10) Rabbit mAb	Cell Signaling Technology
Actin	β-Actin (13E5) Rabbit mAb	Cell Signaling Technology
P-Akt	Phospho-Akt Ser473 (D9E) XP" Rabbit mAb	Cell Signaling Technology
Akt	Akt (pan) (C67E7) Rabbit mAb	Cell Signaling Technology
IQGAP2	IQGAP2 (D1X8U) Rabbit mAb	Cell Signaling Technology
Ubiquitin	Ubiquitin (P4D1) Mouse mAb	Cell Signaling Technology
P-S6	Phospho-S6 Ribosomal Protein (Ser235/236) (D57.2.2E) Rabbit mAb	Cell Signaling Technology
<b>S6</b>	S6 Ribosomal Protein (5G10) Rabbit mAb	Cell Signaling Technology
Puromycin	Anti-puromycin antibody clone 12D10	Sigma-Aldrich
Sumo 2/3	Anti-Sumo 2+3 antibody [8A2]	Abcam
НВх	Anti-Hepatitis B Virus X antigen antibody [3F6-G10]	Abcam
НВс	Anti-Hepatitis B Virus Core Antigen antibody [14E11]	Abcam
HBsAg	Anti-Hepatitis B Virus Surface Antigen (Ad/Ay) antibody (ab9193)	Abcam

## **(C)** Primers used for RT-qPCR

Target Gene	Forward (5' to 3')	Reverse (5' to 3')
SENP3	ACAGAACTGGCTCAATGACC	TCCACCTTTTCACCCCATC
IQGAP2	CCCTTGATCTACTGCCTTATGG	GGCTGGATTCATGTACCGATAG
HBV-PC	GGTCTGCGCACCAGCACC	GAACTTTAGGCCCATATTAGTG
HBV-X	CGTCTGTGCCTTCTCATCTG	ACATTGCTGAGAGTCCAAGAG
Beta-actin	CGCGAGAAGATGACCCAGAT	ACAGCCTGGATAGCAACGTACAT