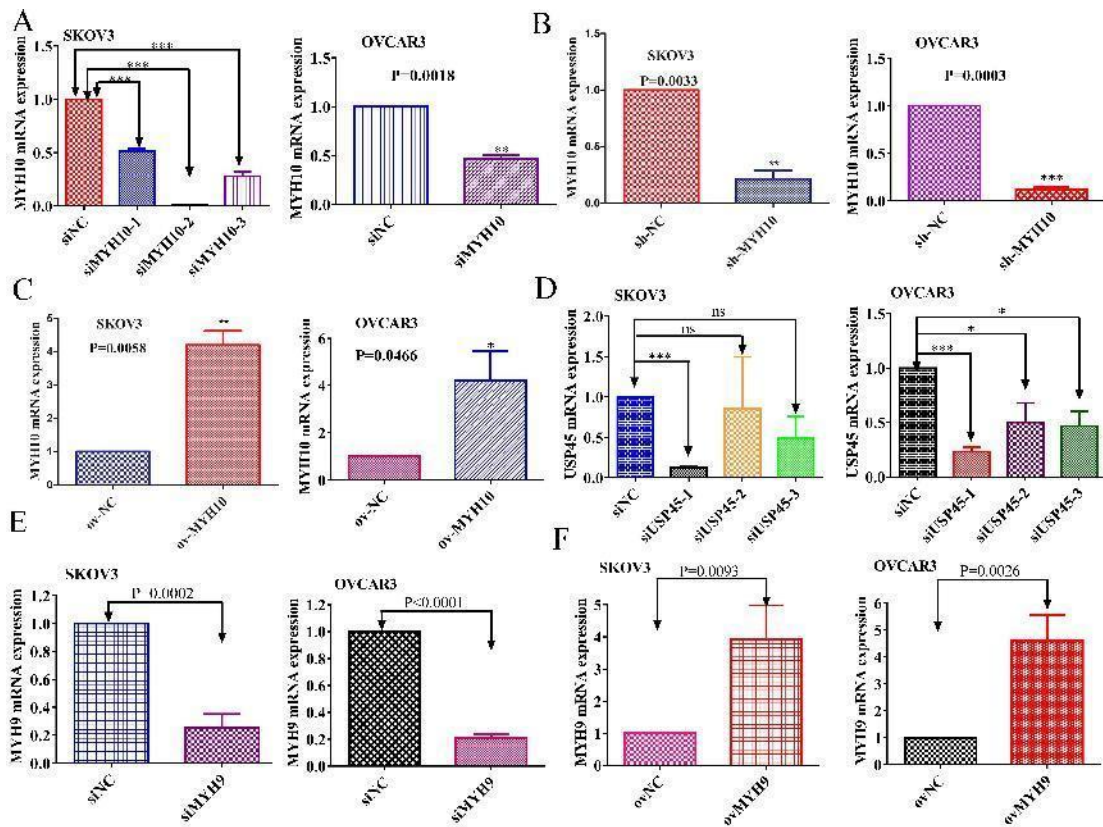


Supporting Information

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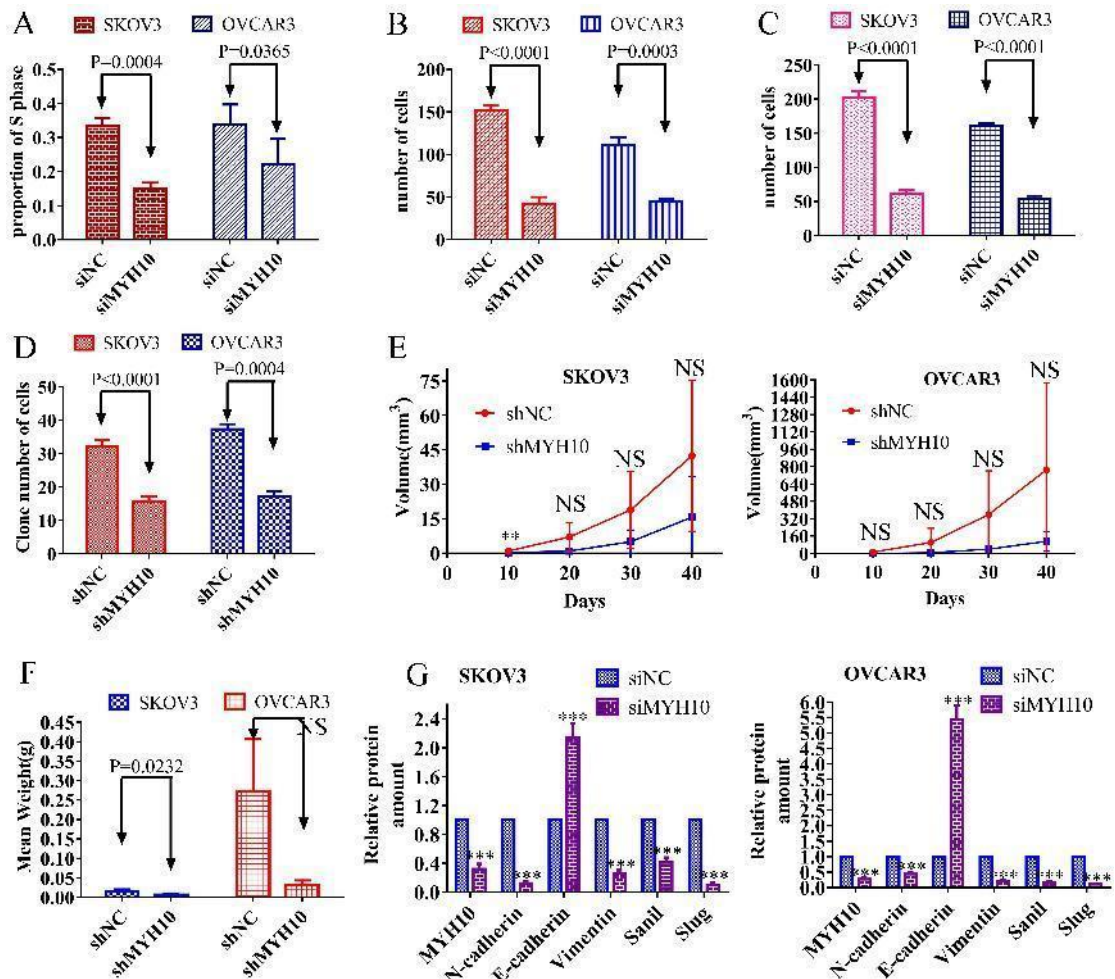
MYH10 Combines with MYH9 to Recruit USP45 by Deubiquitinating Snail and Promotes Serous Ovarian Cancer Carcinogenesis, Progression, and Cisplatin Resistance

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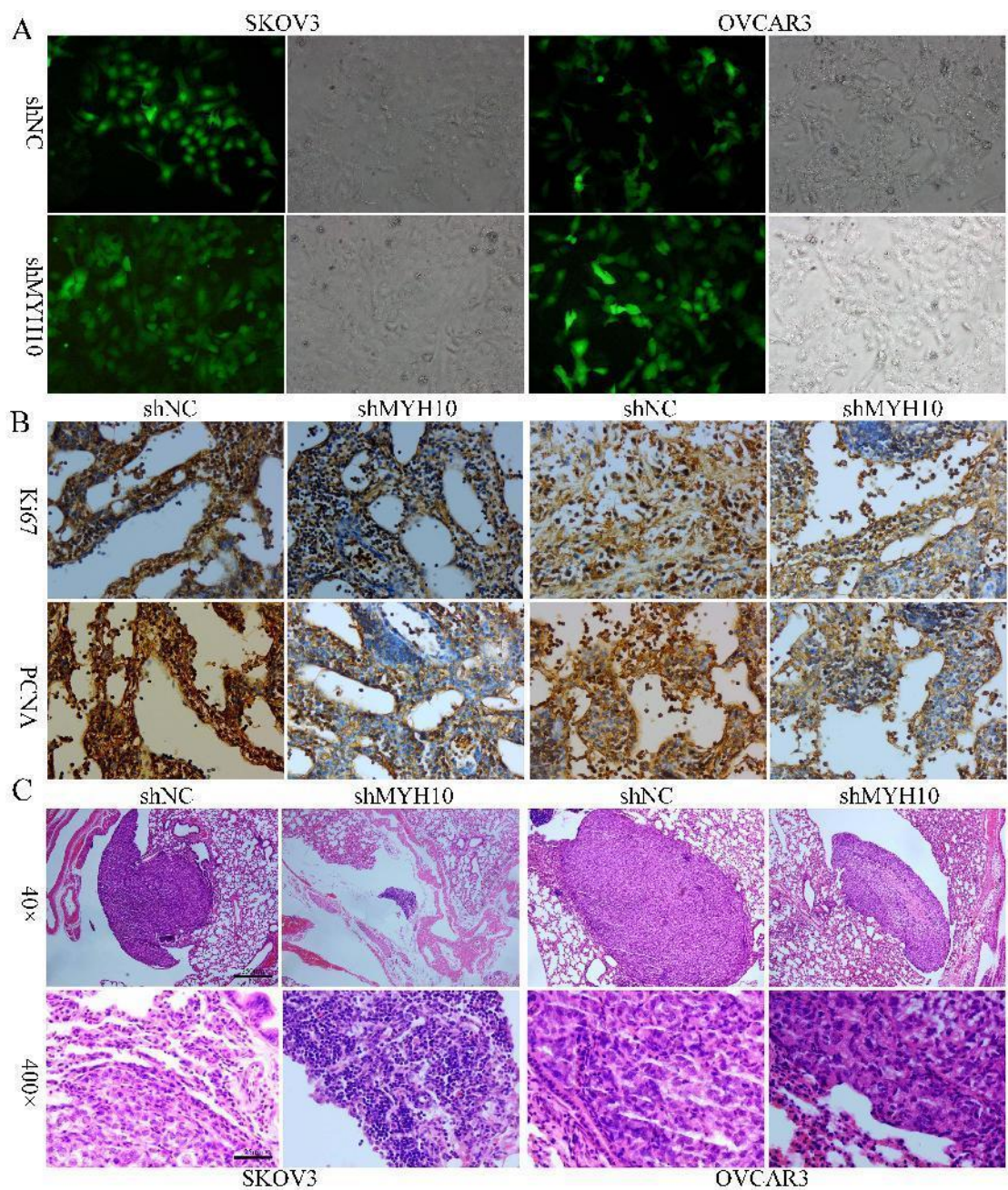
Supplementary Figure S1: Interfering or overexpression effects

A. The interfering effects of siRNA targeting MYH10 in SOC cells. B. The downregulated MYH10 expression mediated by a lentiviral-shMYH10 vector in SOC cells. C. The overexpressed effects of MYH10 plasmid in SOC cells. D. The interfering effects of siRNA targeting USP45 in SOC cells. E. The interfering effects of siRNA targeting MYH9 in SOC cells. F. The overexpressed effects of MYH9 plasmid in SOC cells.



Supplementary Figure S2: The quantitative results of Fig. 2

A. The quantitative results of EdU assays in MYH10 knockdown SOC cells. B. The quantitative results of Transwell assays in MYH10 knockdown SOC cells. C. The quantitative results of Boyden assays in MYH10 knockdown SOC cells. D. The quantitative results of clone formation assays in MYH10 knockdown SOC cells. E. The tumor volume generated by shMYH10 and shNC in SKOV3 and OVCAR3 cells, respectively. F. The mean tumor weight generated by shMYH10 and shNC in SOC cells. G. The quantitative results of Western blot assays in MYH10 knockdown SOC cells



Supplementary Figure S3: stably transfected cells and tumor staining of subcutaneous or lung with IHC and HE

A. Stably transfected SKOV3 and OVCAR3 cells with shNC or shMYH10 (Magnification 400 \times . scale bar, 25 μ m). B. The IHC staining of Ki67 and PCNA in a subcutaneous tumor (Magnification 400 \times . scale bar, 25 μ m). C. The HE staining of tumor formation in the lungs of nude mice (Magnification 40 \times . scale bar, 250 μ m; or Magnification 400 \times . scale bar, 25 μ m).

Supplement Table S1. siRNA sequences

si-MYH10-1	GACUGGUCAGGAACUAGAA
si-MYH10-2	GACUCGUCAGGAACUGGAA
si-MYH10-3	CACUCGUCAAGAACUGGAA
si-MYH9	GCAACATCGTCTTCAAGAA
si-Snail	GCUGCAGGACUCUAAUCCA
si-USP45-1	GGCACCUCGAUUUAAAGAU
si-USP45-2	CCCUUUCUCAGAGCUAUAU
si-USP45-3	CAGCCUUGUCCUGUUUCU

Supplement Table S2. qPCR Primer sequence

GAPDH	F : CCATCTTCCAGGAGCGAGAT
	R : TGCTGATGATCTTGAGGCTG
Snail	F : TTCTTCTGCGCTACTGCTGCG
	R : GGCAGGTATGGAGAGGAAGA
MYH9	F : AGTTTGTCTCGGAGCTGTGG
	R : GGTTCGTGTTCTCAGCGTA
MYH10	F : CGACGCGTGCCAACGCATC
	R : GACACAGTTGATCTTTCAGGAAGG
USP45	F : GGACCCCTTTACCCTCTGTC
	R : ACCTCAAATGCTTCCCCTCT

Supplement Table S3. the primary antibody used in WB, IF, CoIP and IHC

A list of antibodies used for WB, ChIP, IHC				
Antibodies name	Cat. No	Company	Species	Dulution
Ki67	ab16667	Abcam	Rabbit	1:100 (IHC)
Slug	9585	CST	Rabbit	1:1000 (WB)
PCNA	13110	CST	Rabbit	1:1000 (IHC)
MYH9	11128-1-AP	Proteintech	Rabbit	1:1000 (WB); 1:10 (CoIP); 1:100 (IF)
MYH9	60233-1-Ig	Proteintech	Mouse	1:1000 (WB); 1:100 (IF)
β -tubulin	66240-1-Ig	Proteintech	Mouse	1:1000 (WB)
Snail	3879	CST	Rabbit	1:1000 (WB)
Snail	26183-1-AP	Proteintech	Rabbit	1:1000 (WB); 1:100 (IF)
MYH10	ab684	Abcam	Mouse	1:1000 (WB); 1:100 (IF)
MYH10	19673-1-AP	Proteintech	Rabbit	1:10 (CoIP); 1:200 (IHC)
Ubiquitin	3933	CST	Rabbit	1:1000 (WB)
USP45	35125	SAB	Rabbit	1:1000 (WB)
E-cadherin	60335-1-Ig	Proteintech	Mouse	1:1000 (WB)
N-cadherin	66219-1-Ig	Proteintech	Mouse	1:1000 (WB)

normal IgG	2729S	CST	Rabbit	1:10 (CoIP)
GAPDH	CW0100M	CWBIO	Mouse	1:1000 (WB)
Vimentin	10366-1-AP	Proteintech	Rabbit	1:1000 (WB)
Flag	F7425	Sigma	Rabbit	1:1000 (WB); 1:20 (Co-IP)