Supplementary Materials

Platelet-activating Factor Acetylhydrolase Expression in BRCA1 Mutant Ovarian Cancer as a Protective Factor and Potential Negative Regulator of the Wnt Signaling Pathway

Table S1: Antibodies used for immunostainings.

Antibody	Dilution	Manufacturer
anti-PAF-AH, monoclonal mouse	1:200 (IHC) 1:25 (ICC)	MyBioSource, San Diego, CA, USA
anti-GSK3β (phospho Y216), polyclonal rabbit	1:1000 (IHC)	Abcam, Cambridge, UK
anti-β-catenin, polyclonal rabbit	1:300 (IHC) 1:200 (ICC)	Diagnostic BioSystems, Fremont, CA, USA

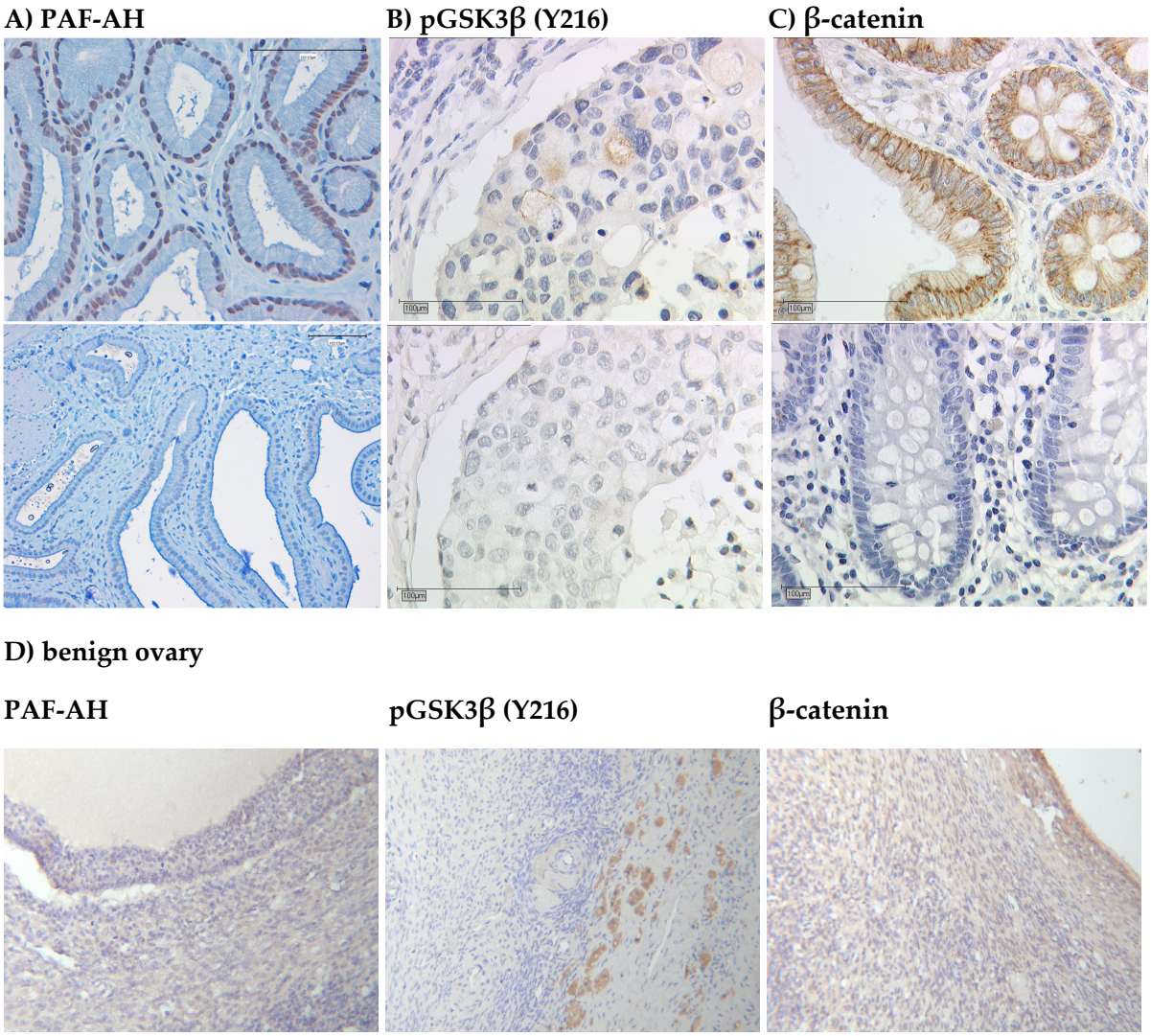
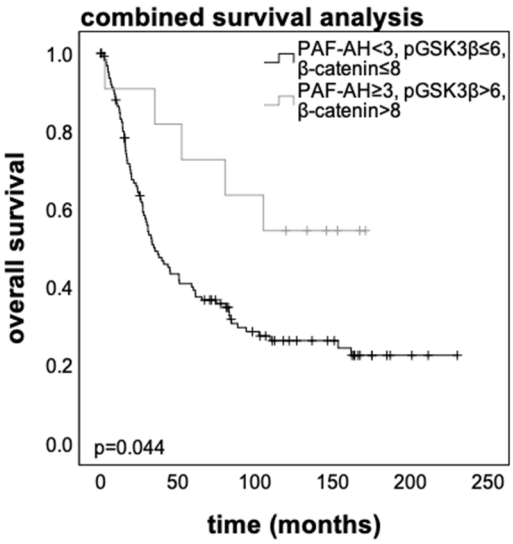


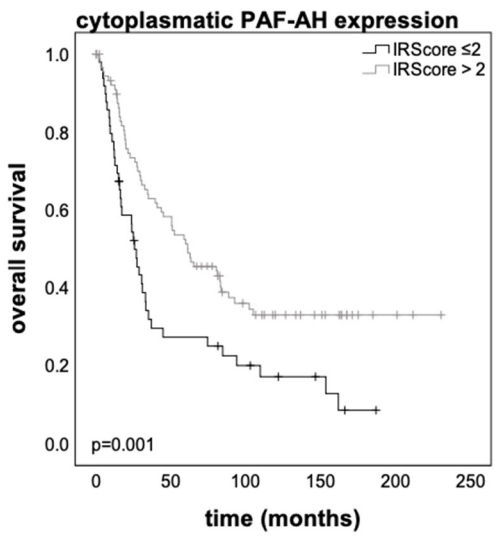
Figure S1: Positive and negative system controls. (**A–C**) Metastatic or healthy colon tissue served as positive (top) and negative (bottom) system controls for immunostainings (25× magnification). (**D**) Staining of benign ovary (10× magnification).

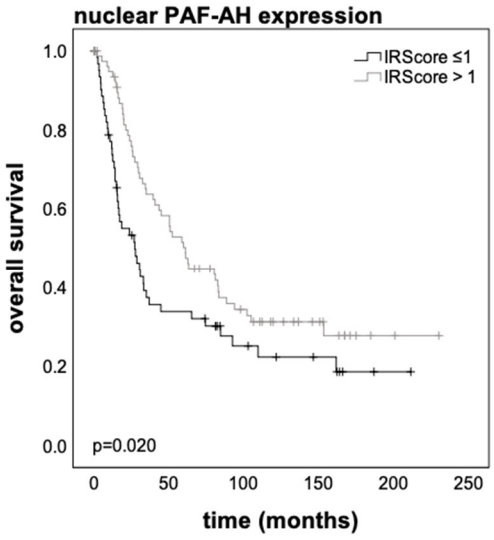
Table S2: Sequences of primers used in qPCR to determine mRNA expression levels.

PLA2G7	Forward: GGCTCTACCTTAGAACCCTGAAA
	Reverse: TTTTGCTCTTTGCCGTACCT
β-actin	Forward: TCCTCCCTGGAGAAGAGCTA
	Reverse: CGTGGATGCCACAGGACT
GAPDH	Forward: AGCCACATCGCTCAGACAC
	Reverse: GCCCAATACGACCAAATCC



low expression of all proteins
n = 128
median survival 35.2 months
high expression of all proteins
n = 11
median survival 199.8 months





IRScore ≤ 2	IRScore ≤ 1
n = 49	n = 62
median survival 25.7 months	median survival 27.4 months
IRScore > 2	IRScore > 1
n = 92	n = 79
median survival 61.3 months	median survival 61.2 months

Figure S2: Combined survival analysis of PAF-AH, pGSK3β (cytoplasmatic), and β-catenin (membranous). The Kaplan Meier estimate (log-rank testing) shows that high tumoral expression levels of the investigated proteins are associated with prolonged OS. Censoring events have been marked in the graph (+).

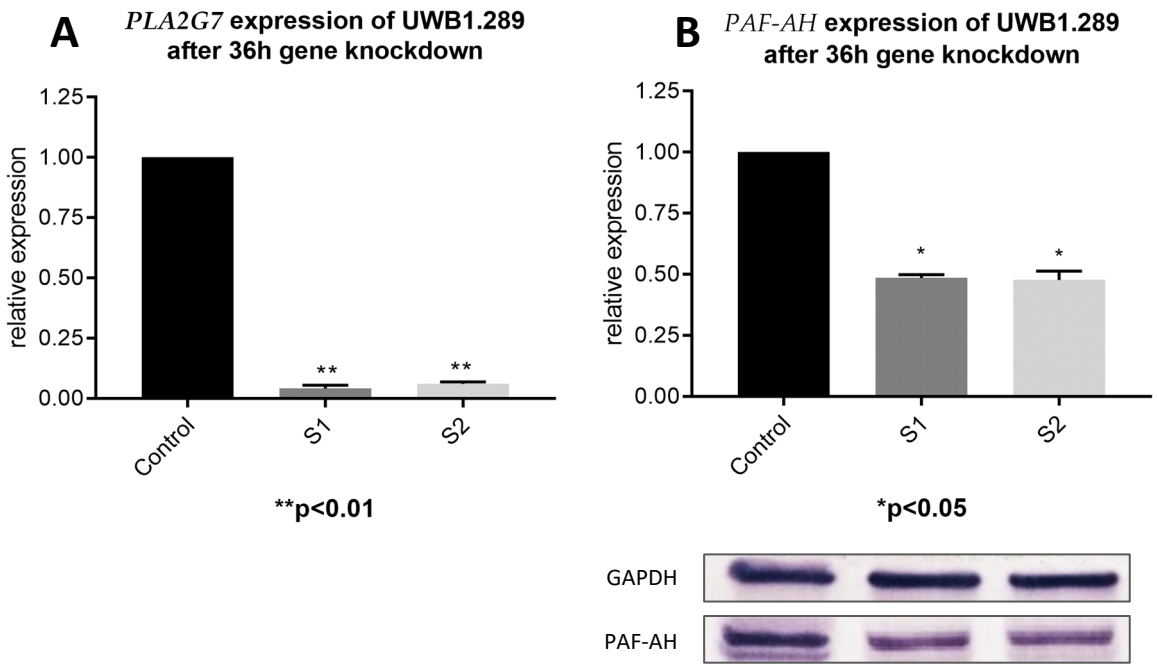


Figure S3: Successful PLA2G7/PAF-AH downregulation by siRNA knockdown. The efficiency of siRNA knockdown was investigated by qPCR (**A**) and western blot analysis (**B**). The best knockdown of PLA2G7 was achieved after an incubation time of 36h ($p < 0.01$; **A**). Concordant to the result on RNA level, western blot analysis showed a decrease in protein expression ($p < 0.05$), confirming a successful downregulation (**B**).