

Supplementary Table S1. Relationship between expression of AKT1, β -TrCP, Twist1, and E-cadherin in surgical specimens of breast cancer.

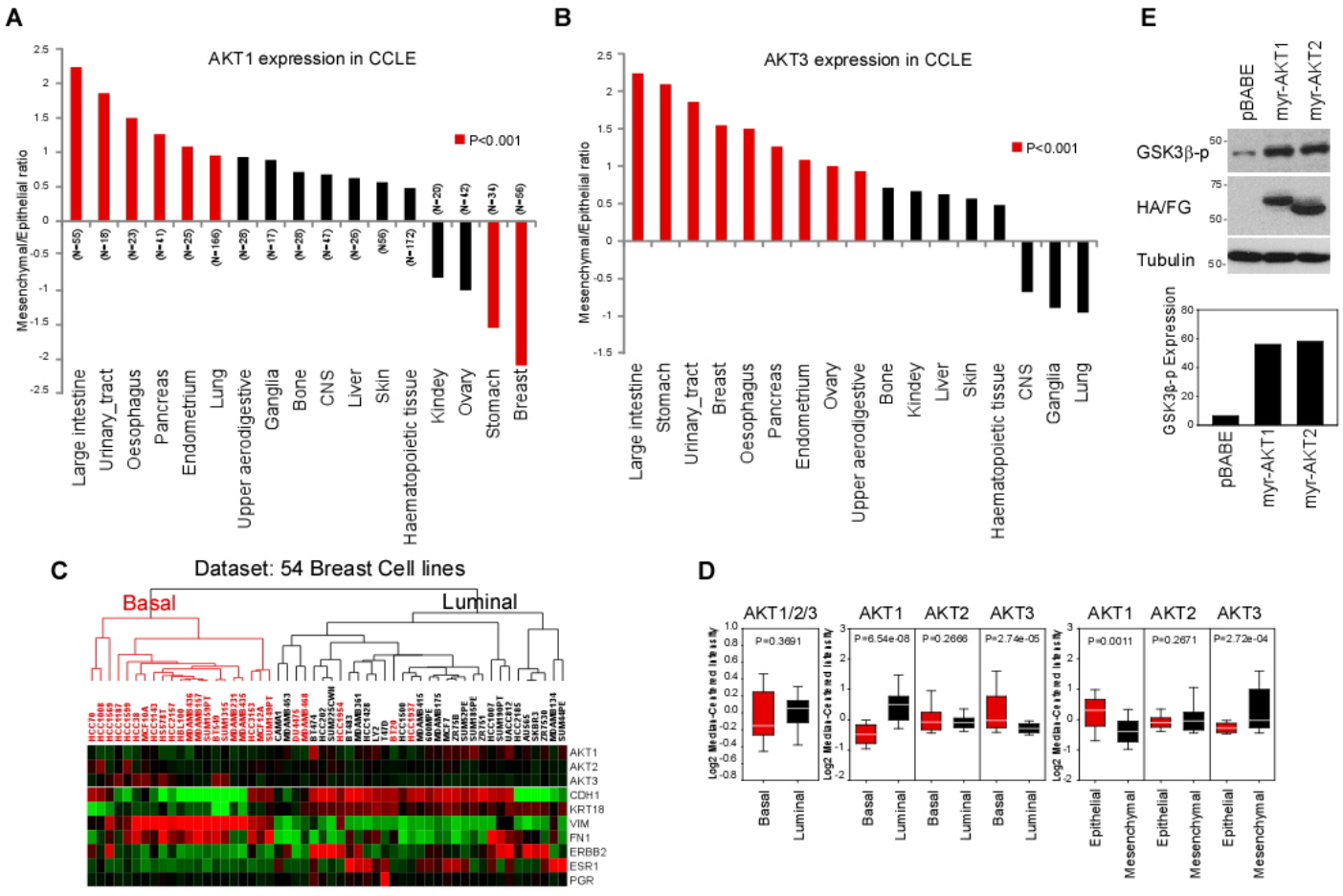
		AKT1 Expression			Total	P value
		-/+	++	+++		
β-TrCP	-/+	15(14.4%)	8(7.7%)	1(1.0%)	24(23.1%)	
	++	7(6.7%)	17(16.3%)	5(4.8%)	29(27.9%)	
	+++	1(1.0%)	8(7.7%)	42(40.4%)	51(49.0%)	
Total		23(22.1%)	33(31.7%)	48(46.2%)	104(100%)	P = 0.0001
Twist1	-/+	6(5.8%)	9(8.7%)	13(12.6%)	28(27.2%)	
	++	21(20.4%)	3(2.9%)	17(16.5%)	41(39.8%)	
	+++	18(17.5%)	7(6.8%)	9(8.7%)	34(33.0%)	
Total		45(43.7%)	19(18.4%)	39(37.9%)	103(100%)	P = 0.018
E-cad	-/+	12(14.5%)	7(8.4%)	3(3.6%)	22(26.5%)	
	++	5(6.0%)	9(10.8%)	14(16.9%)	28(33.7%)	
	+++	4(4.8%)	10(12%)	19(22.9%)	33(39.8%)	
Total		21(25.3%)	26(31.3%)	36(43.4%)	83(100%)	P = 0.002

Pearson chi-square test was used to evaluate the correlation between AKT-1, β -TrCP, E-Cadherin, and Twist (SPSS software). A P value < 0.05 was set as the criterion for statistical significance. E-cad, E-cadherin.

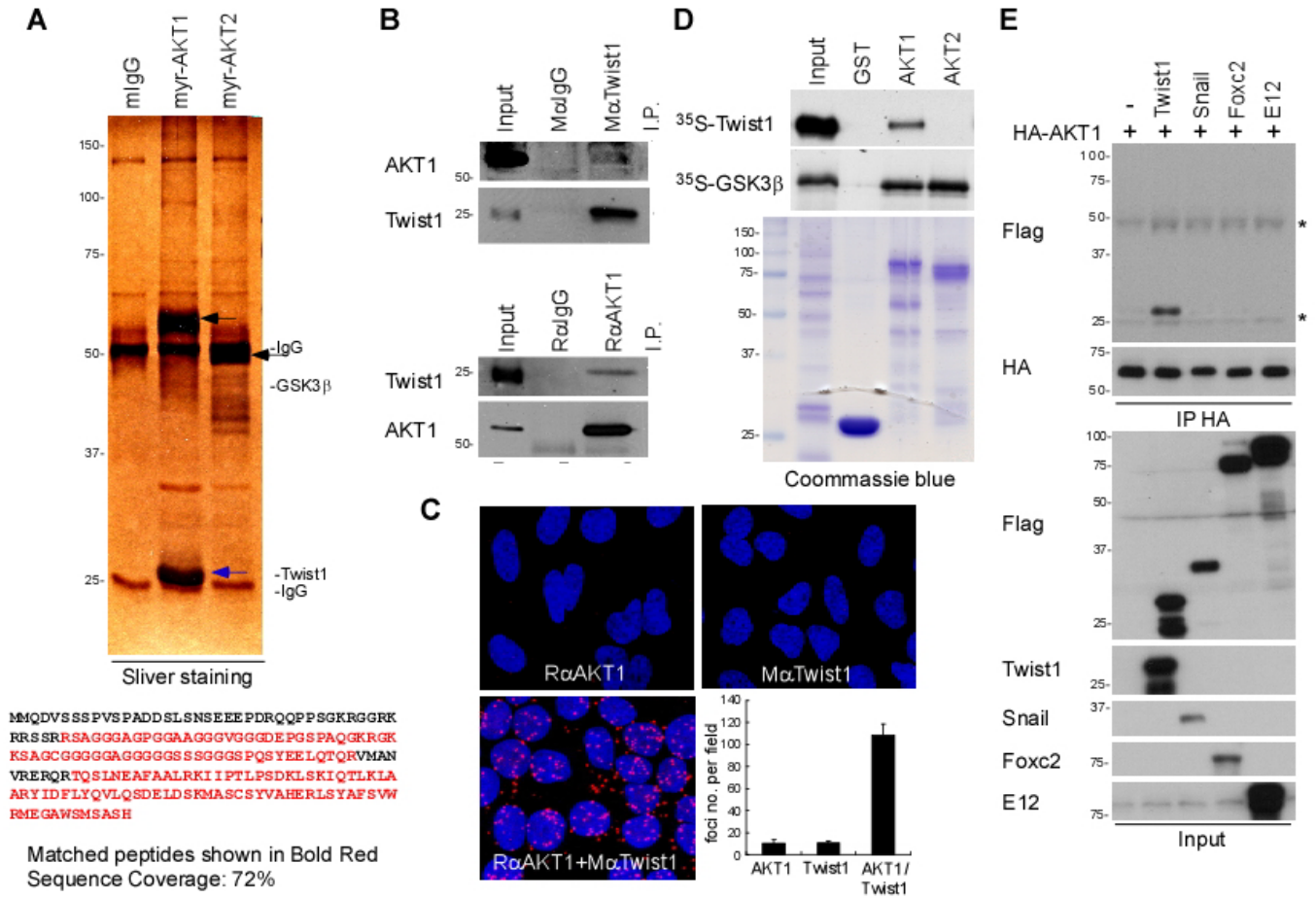
Supplementary Table S2. Antibodies used in Western blotting and immunoprecipitation.

Antibody	Company	Catalog Number
Flag	Sigma	F3165
HA	Roche	11666606001
Twist	Santa Cruz Biotechnology	C-19
AKT1	Cell Signaling Technology	2938
p-(Ser/Thr) AKT substrate	Cell Signaling Technology	9611
p-RxRxxS/T	Cell Signaling Technology	9614
p-AKT(S473)	Cell Signaling Technology	9271
E-cadherin	BD Biosciences	610405
α -catenin	BD Biosciences	610194
N-cadherin	BD Biosciences	610921
fibronectin	BD Biosciences	610077
vimentin	Santa Cruz Biotechnology	10AG2
α -tubulin	Santa Cruz Biotechnology	B-5-1-2
ubiquitin	Santa Cruz Biotechnology	P4D1
HRP anti-Mouse IgG	e Bioscience	18-8877-31
HRP anti-Rabbit IgG	e Bioscience	18-8816-31

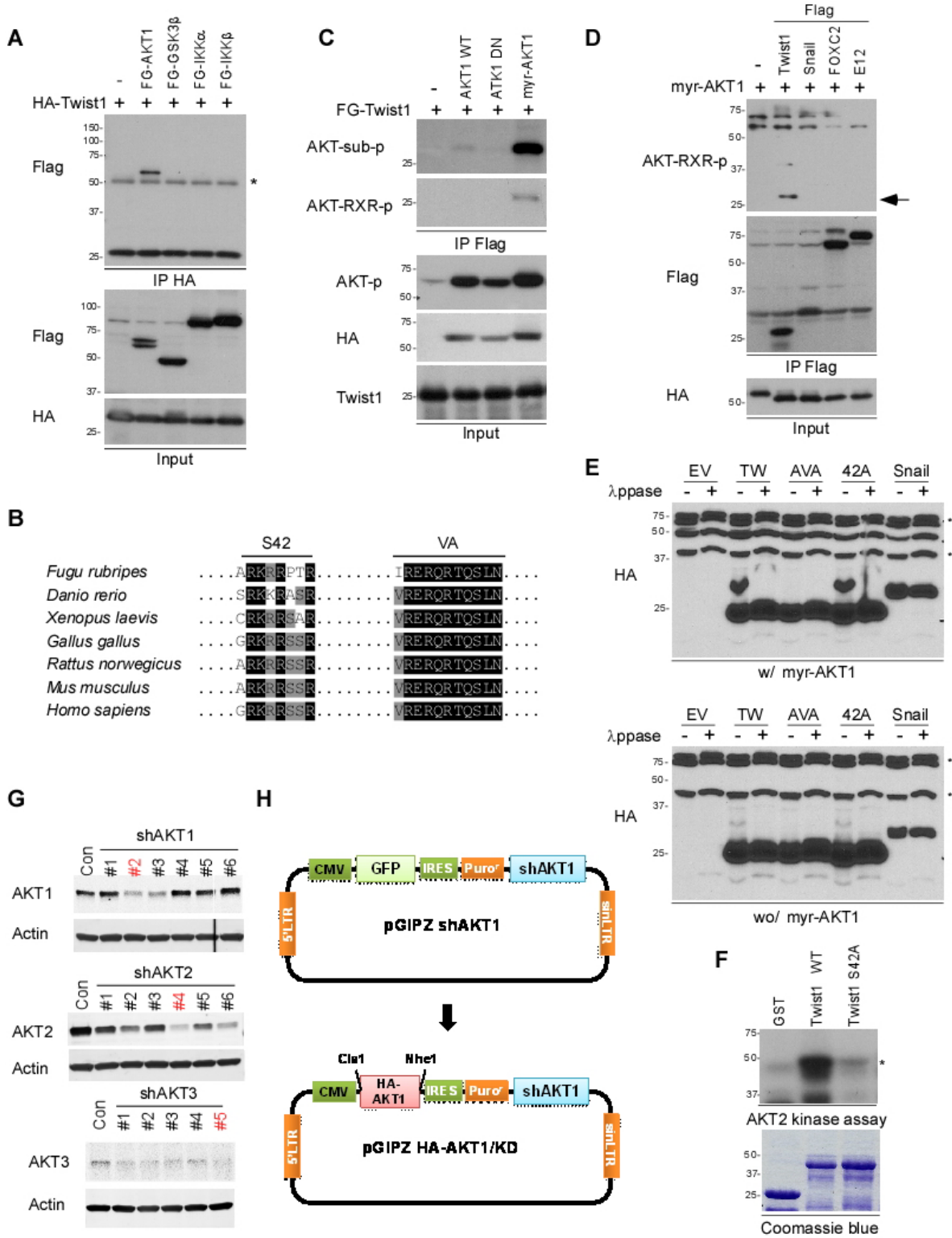
Supplementary Figure S1



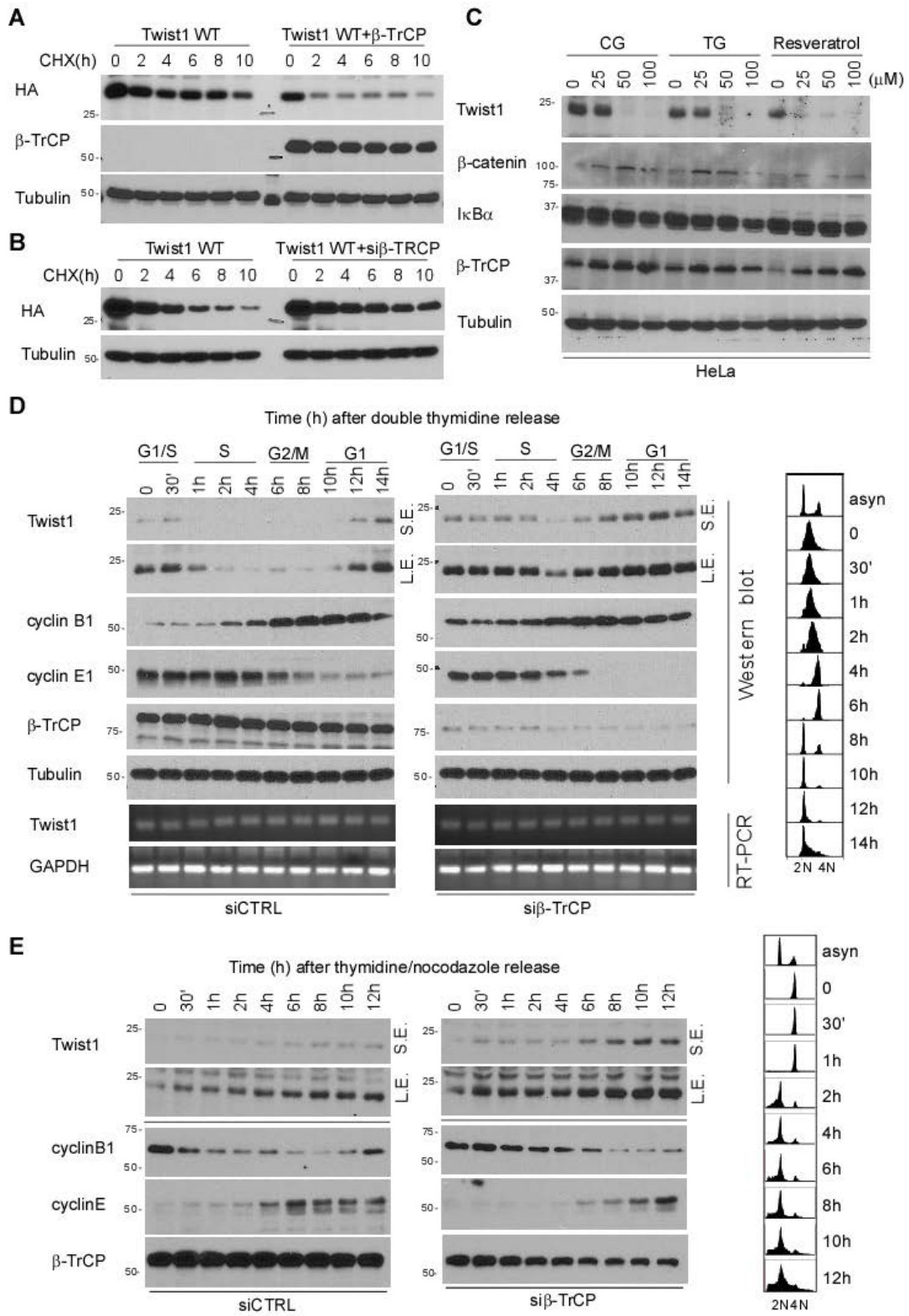
Supplementary Figure S2



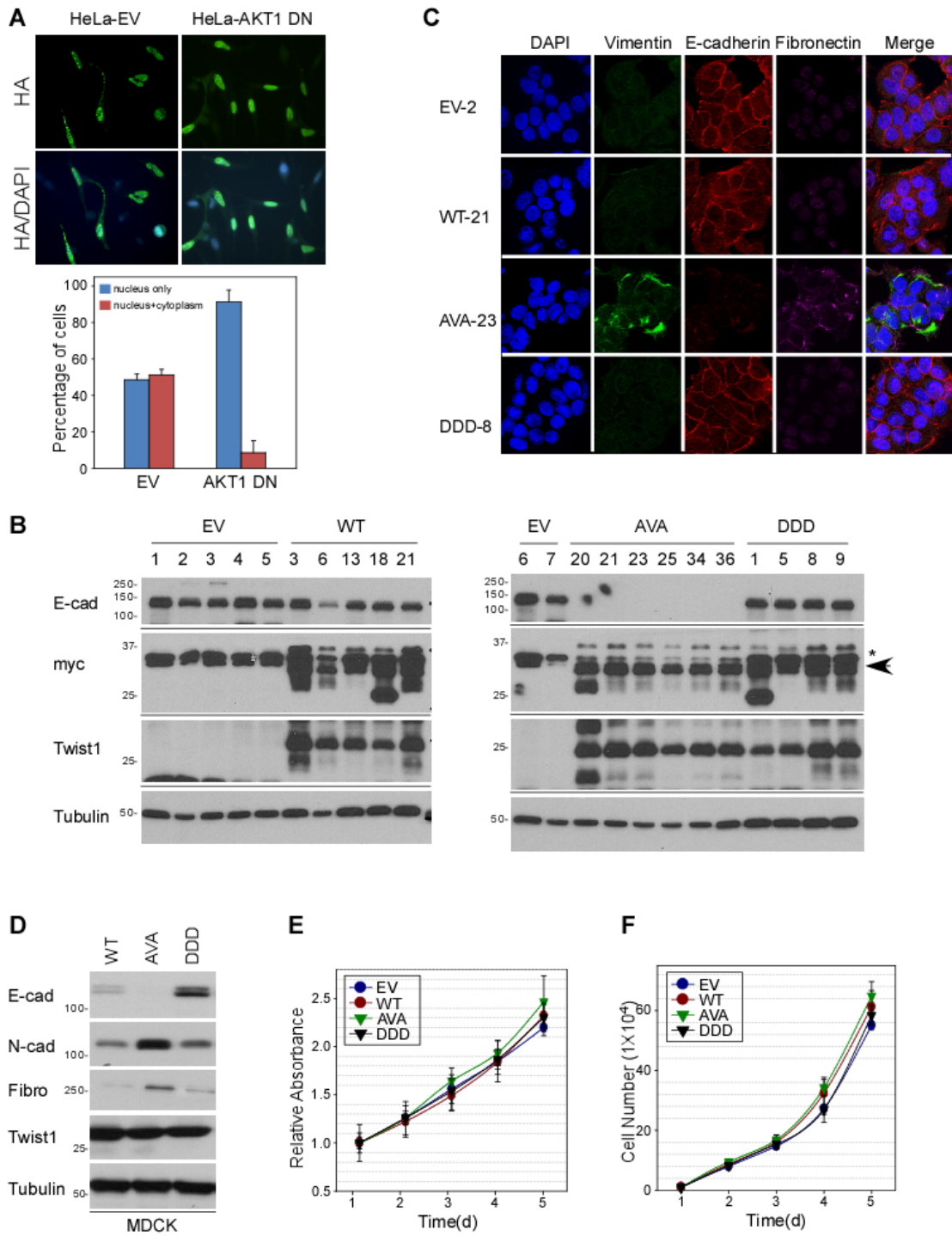
Supplementary Figure S3



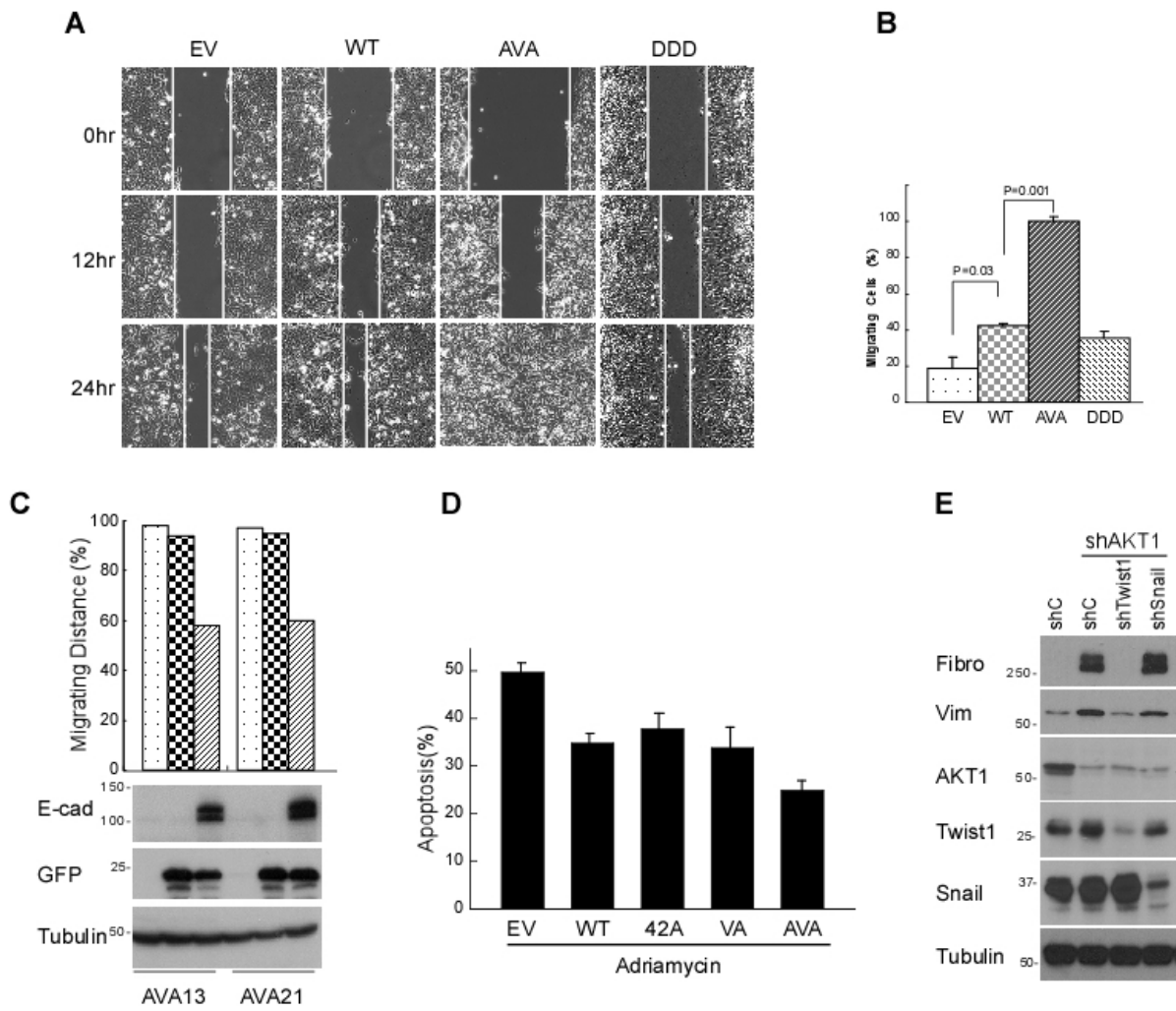
Supplementary Figure S4



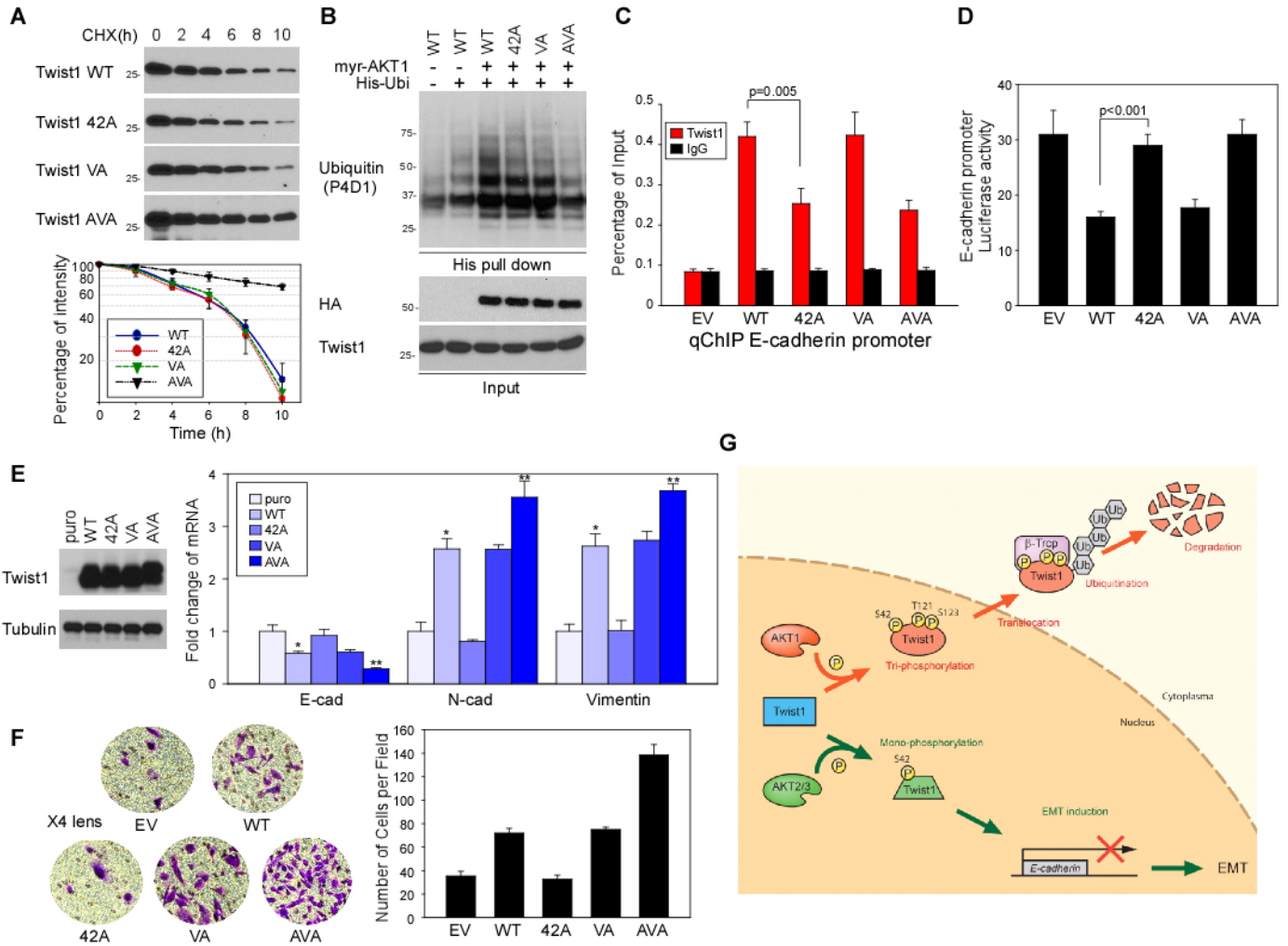
Supplementary Figure S5



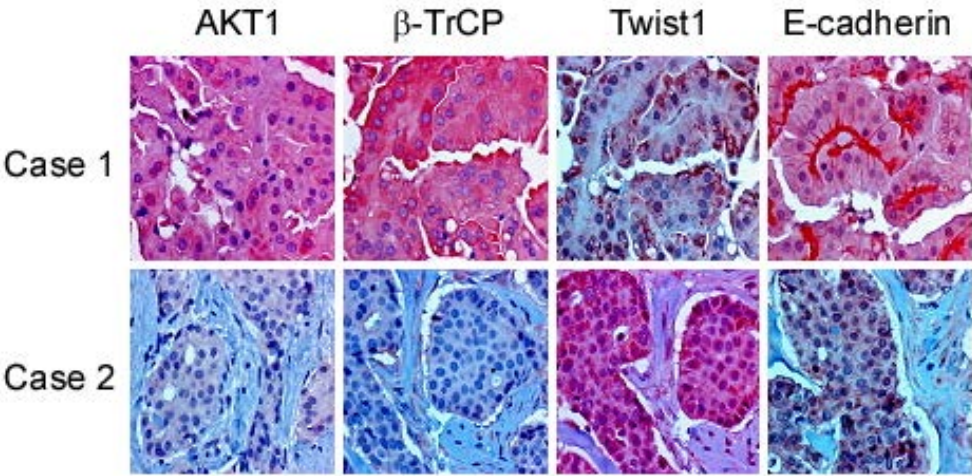
Supplementary Figure S6



Supplementary Figure S7



Supplementary Figure S8



Supplementary Figure S9

