

Figure S1. *PTEN* gene alteration, as analyzed using FISH. Images correspond to representative results of *PTEN* dual-color FISH analysis; magnification, x63. (A) Normal presentation with diploidy of *PTEN* genes (orange signals) and CCP10 (green signals). (B) Monosomy with one copy of *PTEN* gene (orange signal) and CCP10 (green signal). (C) Heterozygous deletion with one copy of *PTEN* gene (orange signal) and diploidy of CCP10 (green signals). (D) *PTEN* gene break point (orange signal) and diploidy of CCP10 (green signals). (E) Homozygous deletion with absence of *PTEN* gene (no orange signal) and diploidy of CCP10 (green signals). FISH, fluorescence *in situ* hybridization. CCP10, Chromosome 10 Counting Probe.

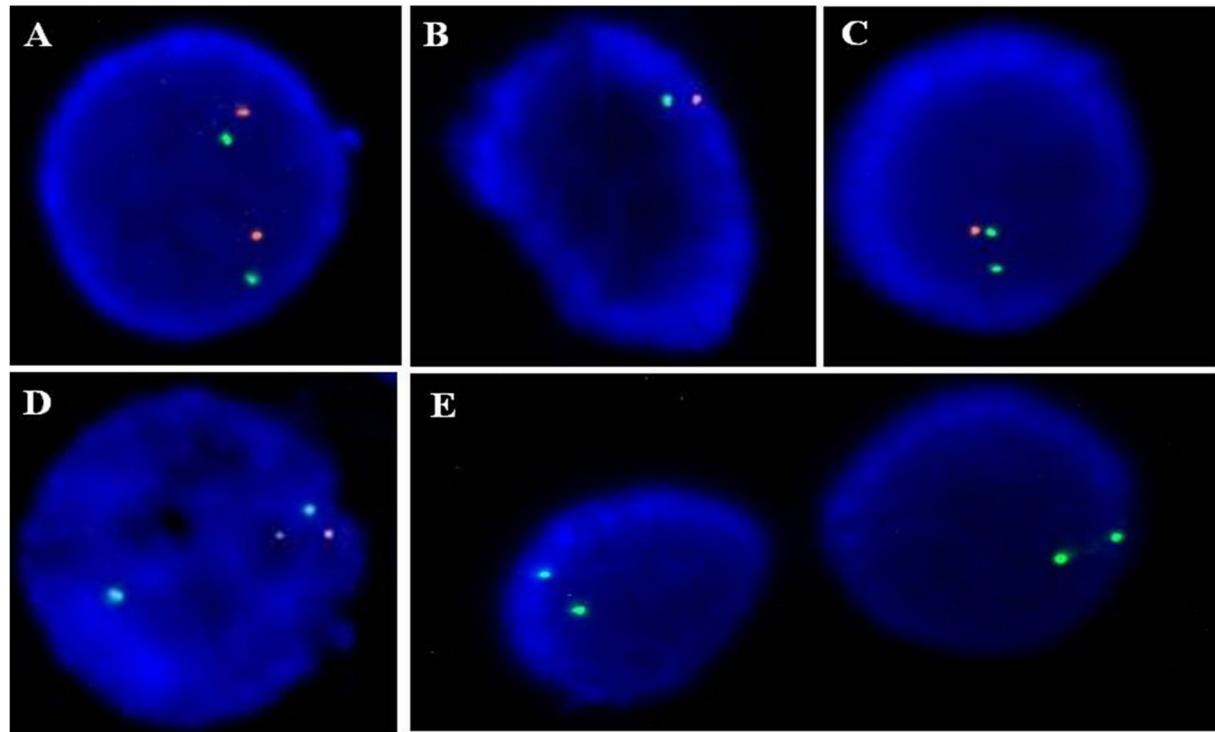


Table SI. Association of *PTEN* gene alteration and protein expression levels.

	PTEN IHC protein expression						pAkt <sup>S473</sup> IHC protein expression						pAkt <sup>T308</sup> IHC protein expression						
	N			C			N			C			N			C			
	High, n (%)	Low, n (%)	High, n (%)	Low, n (%)	High, n (%)	Low, n (%)	High, n (%)	Low, n (%)	High, n (%)	Low, n (%)	High, n (%)	Low, n (%)	High, n (%)	Low, n (%)	High, n (%)	Low, n (%)	High, n (%)	Low, n (%)	
<i>PTEN</i> FISH																			
No Deletion	20 (31)	23 (35)	0.434	21 (32)	22 (34)	0.338	16 (24)	27 (42)	0.423	9 (14)	34 (52)	0.566	15 (23)	28 (43)	0.906	15 (23)	28 (43)	0.634	
Deletion	8 (12)	14 (22)		8 (12)	14 (22)		6 (9)	16 (25)		6 (9)	16 (25)		8 (12)	14 (22)		9 (14)	13 (20)		

FISH, fluorescence *in situ* hybridization; p, phosphorylated; IHC, immunohistochemistry; N, nucleus; C, cytoplasm.