Fig. 2B Protein expressions of Dsg2 and Dsc2 in BC cell lines and non-tumorigenic human breast MCF10A cells, GAPDH as the loading control.

Dsg2

10A 231 M7	10A M7 231	10A M7 231
metta metta ng2		10.4 mcf 231
10A 231 M7	Dsc2 10A 231 M7	10A 231 M7
	Conco	egt in des
	GAPDH	

Fig. 3A The comparison of protein levels from four clones (#5, #6, #7 and#8) of shDsg2 and three clones (#31, #32 and#33) of shDsc2 with their controls (shControl1 and shControl2) in MDA-MB-231 cells and MCF-7 cells by western blot, respectively.



Fig. 6A The expressions of function-associated proteins were determined in shDsg2 and shDsc2 BC cells by western blot



N-cadherin in 231







CD133 in 231



cyclin D1 in 231

CD133 in MCF-7



cyclin D1 in MCF-7



β-catenin in 231

GAPDH in 231

GAPDH in MCF-7

β-catenin in MCF-7



Fig. 6B The expressions of pathway-associated proteins were determined in shDsg2 and shDsc2 BC cells by western blot



Dsc2 in 231





EGFR in 231

EGFR in MCF-7



p-EGFR(Y845) in 231



p-EGFR(Y845) in MCF-7



p-EGFR(Y1092) in MCF-7

p-EGFR(Y1092) in 231





p-ERK(T202/Y204) in 231



p-ERK(T202/Y204) in MCF-7







GAPDH in 231

GAPDH in MCF-7

2310: 6 23102 2 mcf m6 mcf m2 231 6 23102 2
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Fig. 7C Western blot analysis of p-AKT and p-ERK expression in response to MK2206 and PD98059 treatment in shDsg2 and shDsc2 MDA-MB-231 cells.



Dsc2 in shDsg2 231 cells



Dsc2 in shDsc2 231 cells







p-AKT in shDsg2 231 cells

p-ERK in shDsc2 231 cells

p-AKT in shDsc2 231 cells







GAPDH in shDsg2 231 cells







