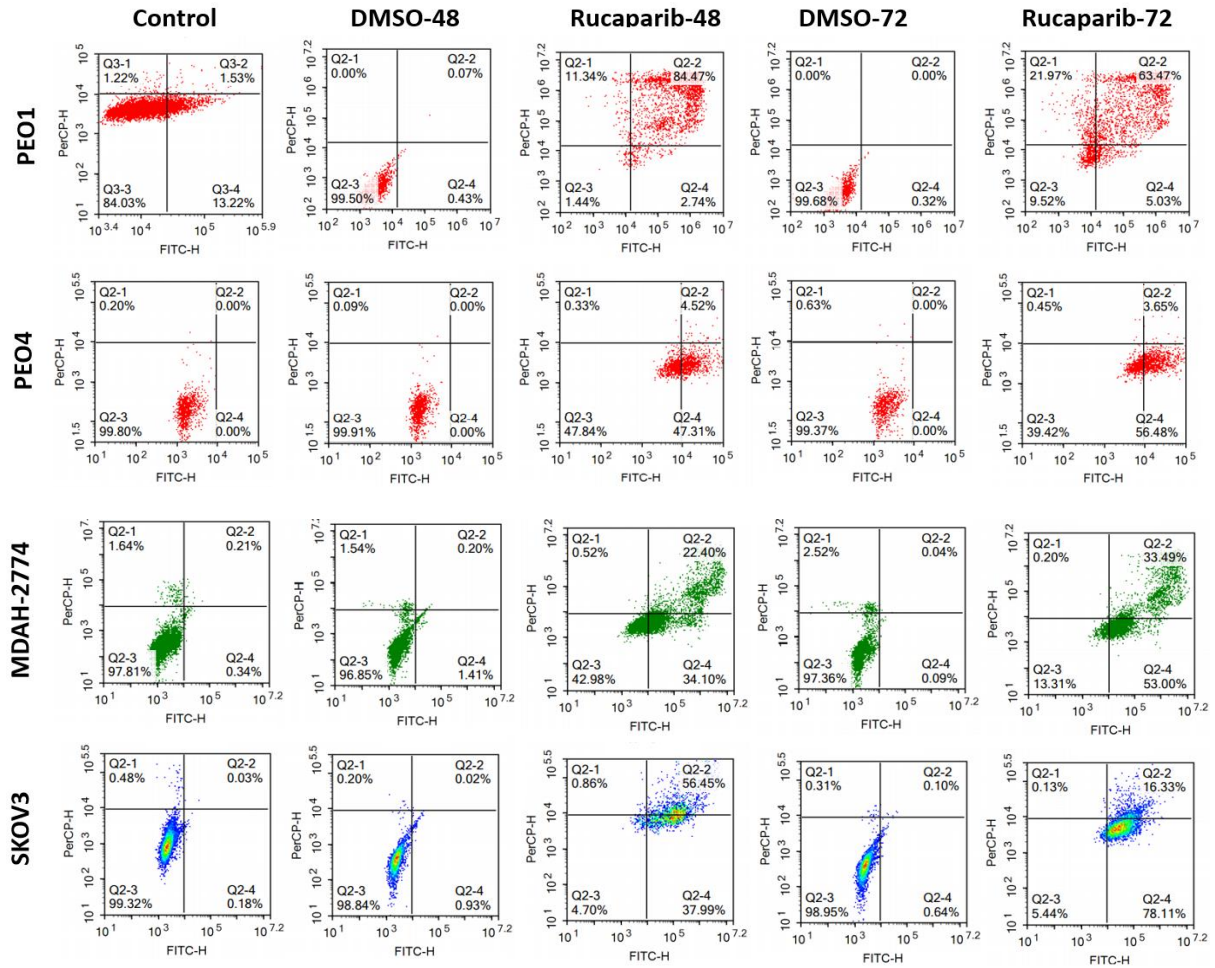


**Table S1.** Patient characteristics. NACT: neo-adjuvant chemotherapy.

BRCA status	Age (years)	Treatment	$\gamma$ -H2AX /100 cells
Mutant	77	NACT with surgery	21
Mutant	54	NACT with surgery	10
Mutant	52	Chemotherapy/Cisplatin	6
Wild type	62	NACT with surgery	2
Wild type	85	NACT with surgery	2
Wild Type	53	NACT with surgery	1



**Figure S1.** Flow cytometry analysis with annexin V and propidium iodide staining in PEO1, PEO4, MDAH-2774 and SKOV3 cells showed a significant increase of apoptotic population (early apoptosis; annexin V+/PI-, late apoptosis; annexin V+/PI+) with treatment of 10  $\mu$ M rucaparib. Flow cytometry analysis was performed 48-hrs and 72-hrs after treatment of rucaparib.