

Polyclonal Antibody to BRCA2 - Purified

Alternate names:	BRCA-2, FANCD, FANCD1
Catalog No.:	AP00491PU-N
Quantity:	0.5 mg
Concentration:	1 mg/ml
Background:	BRCA2 is localized to chromosome 13q12-q13. Loss of heterozygosity of 13q is observed in 25% of sporadic breast tumors, which indicates that BRCA2 might be a tumor suppressor gene. BRCA2 confers only a low ovarian cancer risk. Reportedly, in MCF-10F (normal breast epithelial cell line) and MCF-7 (breast cancer cell line) cells the expression of BRCA2 RNA was low in G0 and early G1 phases then up-regulated at the G1/S phase junction. Expression of BRCA2 was maintained at relatively high levels when cells progressed through S and G2/M phases. For MCF-7 cells, the level of BRCA2 transcript decreased as cells were released from nocodazole-mediated metaphase arrest. This is consistent with the observation of low but detectable BRCA2 RNA level in G1 phase of the cell cycle. For both cell lines, the patterns of RNA expression of BRCA1 and BRCA2 were similar during the proliferation phase of cell cycle. However, the transcripts from both genes were undetectable in quiescent cells.
Host:	Rabbit
Immunogen:	A synthetic 24-mer peptide, aa 1324-1347, (YTAASRNSHNLEFDGSDSSKNDTV) from the human BRCA2 protein.
Format:	State: Liquid Purification: Protein A affinity purified immunoglobulin fraction Buffer System: 10mM PBS pH 7.4 with 0.09% sodium azide as preservative and 0.2% BSA as stabilizer.
Applications:	Immunofluorescence. Immunoprecipitation (Use Protein A): Ab 10 µg/mg protein lysate. Recommended positive control: HeLa or MCF-7 Cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Highly specific for BRCA2. Cellular Localization: Nuclear. Mol. Wt. of antigen: 380kD Species: Human. Does not react with Mouse. Other species not tested.
Storage:	Store at 4°C for up to one month or in aliquots at -20°C for longer. Avoid repeated freeze thaw cycles! Shelf life: one year from despatch.
General Readings:	1. Bernard-Gallon DJ; et al. International Journal of Cancer, 1997, 71(1):123-6. 2. Coene E; et al. Nature Genetics, 1997 Jun, 16(2):122-4.