

**BRCA2 (phospho Ser3291) rabbit pAb****Cat#: orb770164 (Manual)**

For research use only. Not intended for diagnostic use.

<b>Product Name</b>	BRCA2 (phospho Ser3291) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
<b>Immunogen</b>	Synthesized phospho-peptide around the phosphorylation site of human BRCA2 (phospho Ser3291)
<b>Specificity</b>	Phospho-BRCA2 (S3291) Polyclonal Antibody detects endogenous levels of BRCA2 protein only when phosphorylated at S3291.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Breast cancer type 2 susceptibility protein
<b>Gene Name</b>	BRCA2
<b>Cellular localization</b>	Nucleus . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Colocalizes with ERCC5/XPG to nuclear foci following DNA replication stress. .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	385kD
<b>Human Gene ID</b>	675
<b>Human Swiss-Prot Number</b>	P51587
<b>Alternative Names</b>	BRCA2; FACD; FANCD1; Breast cancer type 2 susceptibility protein; Fanconi anemia group D1 protein

**Background**

Inherited mutations in BRCA1 and this gene, BRCA2, confer increased lifetime risk of developing breast or ovarian cancer. Both BRCA1 and BRCA2 are involved in maintenance of genome stability, specifically the homologous recombination pathway for double-strand DNA repair. The BRCA2 protein contains several copies of a 70 aa motif called the BRC motif, and these motifs mediate binding to the RAD51 recombinase which functions in DNA repair. BRCA2 is considered a tumor suppressor gene, as tumors with BRCA2 mutations generally exhibit loss of heterozygosity (LOH) of the wild-type allele. [provided by RefSeq, Dec 2008],