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BRCA1 (Phospho Ser988) rabbit pAb

| Catalog No | YP-Ab-00291 |
|--------------------|---|
| Isotype | lgG |
| Reactivity | Human;Rat;Mouse; |
| Applications | WB; ELISA |
| Gene Name | BRCA1 RNF53 |
| Protein Name | BRCA1 (Phospho Ser988) |
| Immunogen | Synthesized peptide derived from human BRCA1 (Phospho Ser988) |
| Specificity | This antibody detects endogenous levels of Human BRCA1 (Phospho Ser988) |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source | Polyclonal, Rabbit,IgG |
| Purification | The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen. |
| Dilution | WB 1:1000-2000 ELISA 1:5000-20000 |
| Concentration | 1 mg/ml |
| Purity | ≥90% |
| Storage Stability | -20°C/1 year |
| Synonyms | Breast cancer type 1 susceptibility protein (EC 6.3.2;RING finger protein 53) |
| Observed Band | 130-200kD |
| Cell Pathway | Nucleus . Chromosome . Cytoplasm . Localizes at sites of DNA damage at double-strand breaks (DSBs); recruitment to DNA damage sites is mediated by ABRAXAS1 and the BRCA1-A complex (PubMed:26778126). Translocated to the cytoplasm during UV-induced apoptosis (PubMed:20160719); [Isoform 3]: Cytoplasm.; [Isoform 5]: Cytoplasm . |
| Tissue Specificity | Isoform 1 and isoform 3 are widely expressed. Isoform 3 is reduced or absent in several breast and ovarian cancer cell lines. |
| Function | cell cycle checkpoint, DNA damage checkpoint, microtubule cytoskeleton organization, double-strand break repair via homologous recombination, recombinational repair, DNA metabolic process, DNA replication, DNA repair, regulation of DNA repair, postreplication repair, double-strand break repair, DNA recombination, regulation of transcription, DNA-dependent, regulation of transcription from RNA polymerase II promoter, regulation of transcription from RNA polymerase III promoter, proteolysis, fatty acid metabolic process, fatty acid biosynthetic process, apoptosis, induction of apoptosis, response to DNA damage stimulus, DNA damage response, signal transduction by p53 class mediator resulting in transcription of p21 class mediator, cytoskeleton organization, microtubule-based process, cell cycle,chromosome |



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segregation, centrosome cycle, intracellular signaling cascade, dosage compensation,

| Background | disease:Defects in BRCA1 are a cause of genetic susceptibility to breast cancer (BC) (MIM:113705, 114480). BC is an extremely common malignancy, affecting one in eight women during their lifetime. A positive family history has been identified as major contributor to risk of development of the disease, and this link is striking for early-onset breast cancer. Mutations in BRCA1 are thought to be responsible for 45% of inherited breast cancer. Moreover, BRCA1 carriers have a 4-fold increased risk of prostate cancer. Cells lacking BRCA1 show defects in DNA repair by homologous recombination, disease:Defects in BRCA1 are a cause of genetic susceptibility to ovarian cancer [MIM:113705], disease:Defects in BRCA1 are a cause of susceptibility to familial breast-ovarian cancer type 1 (BROVCA1) [MIM:604370]. Mutations in BRCA1 are thought to be responsible for more than 80% of inherited breast-ovarian cancer. , domain: The BRCT domains recognize and bind phosphorylated pSXXF motif of FAM175A/Abraxas, recruits BRCA1 at DNA damage sites, domain: The RING-type zinc finger domain interacts with BAP1.function:The BRCA1-BRCA1+BRD1 heterodimer coordinates a diverse range of cellular pathways such as DNA damage repair, ubiquitination and transcriptional regulation to maintain genomic stability. Acts by mediating ubiquitin E3 ligase activity that is required for its tumor suppressor function. Plays a central role in DNA repair by facilitating cellular pathways express the rolNA can age revening its dephosphorylated pSXF motif on proteins. There is evidence that the gresones of DNA damage. Required for FANCD2 targeting to sites of DNA damage. Ray function as a transcriptional regulation in both the S-phase and the G2 phase of the cell cycle. Involved in transcriptional regulation of P21 in response to DNA damage. Required for FANCD2 targeting to sites of DNA damage. Ray function as a transcriptional regulator. Inhibits lipid synthesis by binding to inactive phosphorylated ACACA and preventing is dephosphorylation, online informati |
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| matters needing attention | Avoid repeated freezing and thawing! |
| Usage suggestions | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |
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