Best Tools for immunology Research

# BRCA1 (Phospho Ser1497) Rabbit pAb

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| **Catalog No :** | YP1826 |
| **Reactivity :** | Human;Mouse;Rat |
| **Applications :** | IHC;WB |
| **Target :** | BRCA1 |
| **Fields :** | >>Platinum drug resistance;>>Homologous recombination;>>Fanconi anemia pathway;>>Ubiquitin mediated proteolysis;>>PI3K-Akt signaling pathway;>>MicroRNAs in cancer;>>Breast cancer |
| **Gene Name :** | BRCA1 RNF53 |
| **Protein Name :** | Breast cancer type 1 susceptibility protein (EC 6.3.2.-) (RING finger protein 53) |
| **Human Gene Id :** | 672 |
| **Human Swiss Prot No :** | P38398 |
| **Mouse Gene Id :** | 12189 |
| **Mouse Swiss Prot No :** | P48754 |
| **Rat Gene Id :** | 497672 |
| **Rat Swiss Prot No :** | O54952 |
| **Immunogen :** | Synthesized peptide derived from human BRCA1 (Phospho Ser1497) |
| **Specificity :** | This antibody detects endogenous levels of BRCA1 (Phospho Ser1497) Rabbit pAb at Human, Mouse,Rat |
| **Formulation :** | Liquid in PBS containing 50% glycerol, and 0.02% sodium azide. |
| **Source :** | Rabbit,polyclonal |
| **Dilution :** | WB 1:500-2000 IHC 1:50-200 |

**Purification :** The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.

**Concentration :** 1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Molecularweight :** 205kD

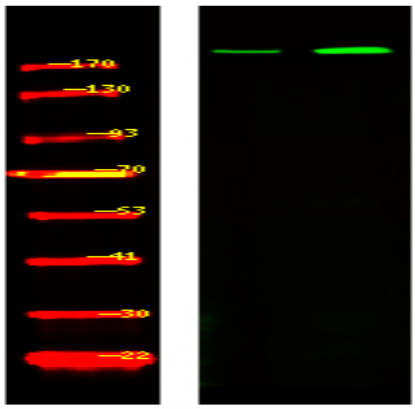
**Background :** BRCA1, DNA repair associated(BRCA1) Homo sapiens This gene encodes a nuclear phosphoprotein that plays a role in maintaining genomic stability, and it also acts as a tumor suppressor. The encoded protein combines with other tumor suppressors, DNA damage sensors, and signal transducers to form a large multi-subunit protein complex known as the BRCA1-associated genome surveillance complex (BASC). This gene product associates with RNA polymerase II, and through the C-terminal domain, also interacts with histone deacetylase complexes. This protein thus plays a role in transcription, DNA repair of double-stranded breaks, and recombination. Mutations in this gene are responsible for approximately 40% of inherited breast cancers and more than 80% of inherited breast and ovarian cancers. Alternative splicing plays a role in modulating the subcellular localization and physiological function of this gene. Many alternatively spliced transcript varian

**Function :** 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 colon cancer, whereas male carriers face a 3-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

**Subcellular Location :** 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 .

**Expression :** Isoform 1 and isoform 3 are widely expressed. Isoform 3 is reduced or absent in several breast and ovarian cancer cell lines.

## Products Images




Western Blot analysis of mouse brain rat brain ,using primary antibody at 1:1000 dilution. Secondary antibody(catalog#:RS23920) was diluted at 1:10000