BRCA2 (Phospho Ser3291) Rabbit pAb

CatalogNo: YP0512

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse,Rat	• WB,ELISA

MW	Isotype
• 385kD (Observed)	• IgG

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
ELISA 1:10000
Not yet tested in other applications.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized phospho-peptide around the phosphorylation site of human BRCA2 (phospho Ser3291)
Specificity	Phospho-BRCA2 (S3291) Polyclonal Antibody detects endogenous levels of BRCA2 protein only when phosphorylated at S3291.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):FVsPA

Target Information

Gene name BRCA2

Protein Name Breast cancer type 2 susceptibility protein

Organism	Gene ID	UniProt ID
Human	675;	P51587;
Mouse	12190;	P97929;
Rat		O35923;

Cellular Localization Nucleus . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Colocalizes with ERCC5/XPG to nuclear foci following DNA replication stress. .

Tissue specificity Highest levels of expression in breast and thymus, with slightly lower levels in lung, ovary and spleen.

Function Disease:Defects in BRCA2 are a cause of genetic susceptibility to breast cancer (BC) [MIM:612555, 114480]; also called susceptibility to familial breast-ovarian cancer type 2 (BROVCA2). 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 BRCA2 are thought to be responsible for some inherited breast cancer. It is linked with male breast cancer.,Disease:Defects in BRCA2 are the cause of Fanconi anemia complementation group D type 1 (FANCD1) [MIM:605724]. Fanconi anemia [MIM:227650] is an autosomal recessive disorder affecting all bone marrow elements and associated with cardiac, renal, and limb malformations as well as dermal pigmentary changes.,Function:Involved in double-strand break repair and/or homologous recombination. May participate in S phase checkpoint activation.,online information:BRCA2 entry,polymorphism:Genetic variations in BRCA2 may underlie susceptibility to uveal melanoma [MIM:155720]. Uveal melanoma is the most common type of ocular malignant tumor, consisting of overgrowth of uveal melanocytes and often preceded by a uveal nevus.,PTM:Phosphorylated by ATM upon irradiation-induced DNA damage.,similarity:Contains 8 BRCA2 repeats.,subunit:Interacts with RAD51 and DSS1. Interacts with ubiquitinated FANCD2. Interacts with PALB2, enables the recombinational repair and checkpoints functions. Interacts with WDR16.,tissue specificity:Highest levels of expression in breast and thymus, with slightly lower levels in lung, ovary and spleen.,

Validation Data

Contact information

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Please scan the QR code to access additional product information:
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