Product Name: BRCA1 Rabbit Polyclonal Antibody

Catalog #: APRab03393



Summary

Production Name BRCA1 Rabbit Polyclonal Antibody

Description Primary antibody

Host Rabbit

Application WB,IHC-F,IHC-P,ICC/IF,ELISA

Reactivity Human,Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Polyclonal Antibody

Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

Purification Affinity Purified

Immunogen

Gene Name BRCA1

Alternative Names BRCA1; RNF53; Breast cancer type 1 susceptibility protein; RING finger protein 53

Gene ID 672

SwissProt ID P38398

Application

Dilution Ratio WB: 1/500-1/1000 IHC: 1/50-1/100 IF: 1/50-1/200 ELISA: 1/10000

Molecular Weight Calculated MW: 208 kDa; Observed MW: 208 kDa

Background

E3 ubiquitin-protein ligase that specifically mediates the formation of 'Lys-6'-linked polyubiquitin chains and plays a central

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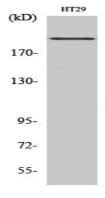
role in DNA repair by facilitating cellular responses to DNA damage. It is unclear whether it also mediates the formation of other types of polyubiquitin chains. The E3 ubiquitin-protein ligase activity is required for its tumor suppressor function. The BRCA1-BARD1 heterodimer coordinates a diverse range of cellular pathways such as DNA damage repair, ubiquitination and transcriptional regulation to maintain genomic stability. Regulates centrosomal microtubule nucleation. Required for normal cell cycle progression from G2 to mitosis. Required for appropriate cell cycle arrests after ionizing irradiation 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. May function as a transcriptional regulator. Inhibits lipid synthesis by binding to inactive phosphorylated ACACA and preventing its dephosphorylation. Contributes to homologous recombination repair (HRR) via its direct interaction with PALB2, fine-tunes recombinational repair partly through its modulatory role in the PALB2-dependent loading of BRCA2-RAD51 repair machinery at DNA breaks.

Component of the BRCA1-RBBP8 complex which regulates CHEK1 activation and controls cell cycle G2/M checkpoints on DNA damage via BRCA1-mediated ubiquitination of RBBP8. Acts as a transcriptional activator (PubMed:20160719).

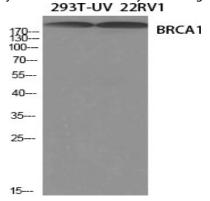
Research Area

Epigenetics and Nuclear Signaling

Image Data



Western blot analysis of BRCA1 in HT-29 lysates using BRCA1 antibody.



Western blot analysis of BRCA1 in 293TUV 22RV1 lysates using BRCA1 antibody.

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Note

For research use only.