Product Name: Phospho-BRCA1 (Ser1423) Rabbit Polyclonal Antibody
Catalog #: APRab00841

Summary

Production Name	Phospho-BRCA1 (Ser1423) Rabbit Polyclonal Antibody
Description	Primary antibody
Host	Rabbit
Application	WB,IHC-P,ELISA
Reactivity	Human,Rat

Performance

Conjugation	Unconjugated
Modification	Phosphorylated
Isotype	IgG
Clonality	Polyclonal Antibody
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Purification	Affinity Chromatography

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 ELISA: 1/10000
Molecular Weight	Calculated MW: 208 kDa; Observed MW: 208 kDa

Background

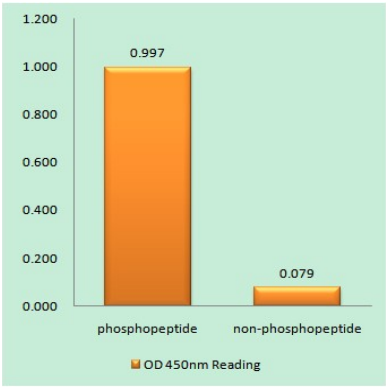
Product Name: Phospho-BRCA1 (Ser1423) Rabbit Polyclonal Antibody
Catalog #: APRab00841

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

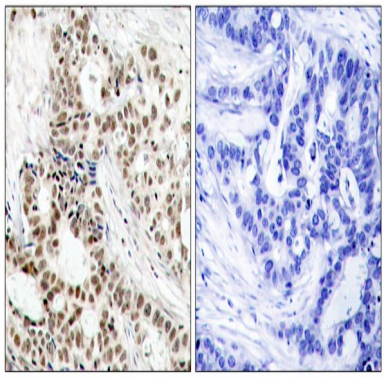
Epigenetics and Nuclear Signaling

Image Data



EnzymeLinked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phospho-peptide (Phospho-left) and NonPhospho-peptide (Phospho-right), using BRCA1 (Phospho-Ser142antibody

Product Name: Phospho-BRCA1 (Ser1423) Rabbit Polyclonal Antibody
Catalog #: APRab00841



Immunohistochemical analysis of paraffin-embedded Human tonsils using Phospho-BRCA1 (Ser1423) antibody. Sample with blocking peptide on the right.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

Note

For research use only.