

Cat. No: ABP-0232
Conjugate: Unconjugated
Size: 100 ug
Clone: POLY
Concentration: 1mg/ml
Host: Rabbit
Isotype: IgG
Immunogen: A synthetic phosphorylated peptide around S1423 of human BRCA1
Reactivity: Human, Mouse, Rat

Applications: Western Blot: 1:500 - 1:2000
 Immunohistochemistry(paraffin-embedded tissues): 1:50 - 1:200
 Immunofluorescence: 1:50 - 1:200
 Immunocytochemistry: 1:50 - 1:200

Molecular Weight: 270kDa

Purification: Affinity purification

Synonyms: IRIS; PSCP; BRCAI; BRCC1; FANCS; PNCA4; RNF53; BROVCA1; PPP1R53

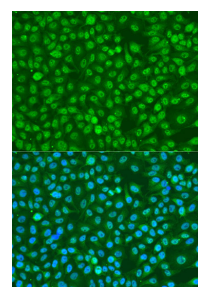
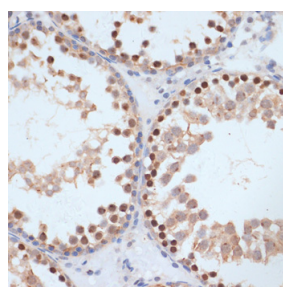
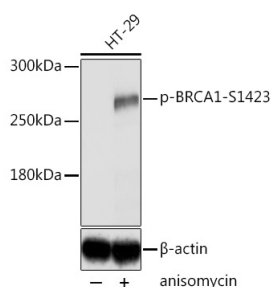
Background:

This gene encodes a 190 kD nuclear phosphoprotein that plays a role in maintaining genomic stability, and it also acts as a tumor suppressor. The BRCA1 gene contains 22 exons spanning about 110 kb of DNA. 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 variants, some of which are disease-associated mutations, have been described for this gene, but the full-length nature of only some of these variants has been described. A related pseudogene, which is also located on chromosome 17, has been identified.

Form: Liquid

Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Storage: Store at -20°C. Avoid freeze / thaw cycles.



**Product Data Sheet:
Phospho-BRCA1 (Ser1423) Rabbit Polyclonal
Antibody**

Western blot analysis of extracts of HT-29 cells, using Phospho-BRCA1-S1423 antibody at 1:2000 dilution. HT-29 cells were treated by Anisomycin (5µg/mL) for 30 minutes after serumstarvation overnight.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% BSA.
Detection: ECL wEST Pico plus.
Exposure time: 5s.

Immunohistochemistry analysis of paraffin-embedded rat testis using Phospho-BRCA1-S1423 antibody at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunofluorescence analysis of U2OS cells using Phospho-BRCA1-S1423 antibody at dilution of 1:100.
Blue: DAPI for nuclear staining.

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