

# Phospho-BRCA1-S1423 Rabbit pAb

Catalog No.: AP0232

## Basic Information

**Observed MW**

270kDa

**Calculated MW**

7kDa/78-85kDa/202-210kDa

**Category**

Primary antibody

**Applications**

WB,IHC,IF/ICC

**Cross-Reactivity**

Human, Mouse, Rat

## Background

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 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.

## Recommended Dilutions

<b>WB</b>	1:500 - 1:2000
<b>IHC</b>	1:50 - 1:200
<b>IF/ICC</b>	1:50 - 1:200

## Immunogen Information

<b>Gene ID</b>	<b>Swiss Prot</b>
672	P38398

**Immunogen**

A synthetic phosphorylated peptide around S1423 of human BRCA1 (NP\_009225.1).

**Synonyms**

BRCA1;BRCAI;BRCC1;BROVCA1;FANCS;IRIS;PNCA4;PPP1R53;PSCP;RNF53

## Contact

 | [www.abclonal.com](http://www.abclonal.com)

## Product Information

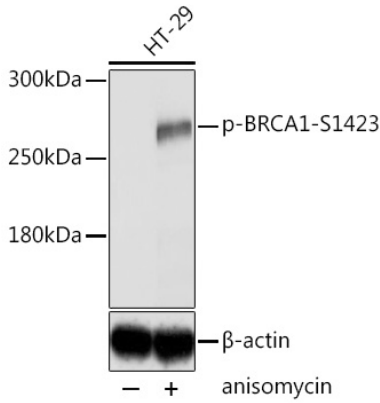
<b>Source</b>	<b>Isotype</b>	<b>Purification</b>
Rabbit	IgG	Affinity purification

**Storage**

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

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

## Validation Data



Western blot analysis of extracts of HT-29 cells, using Phospho-BRCA1-S1423 antibody (AP0232) at 1:2000 dilution. HT-29 cells were treated by Anisomycin (5ug/mL) for 30 minutes after serum-starvation overnight.

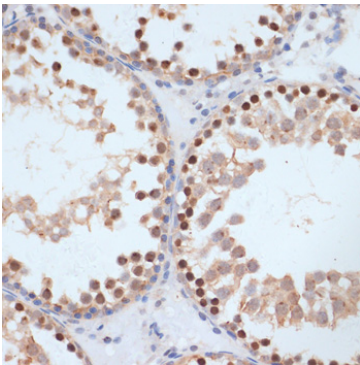
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

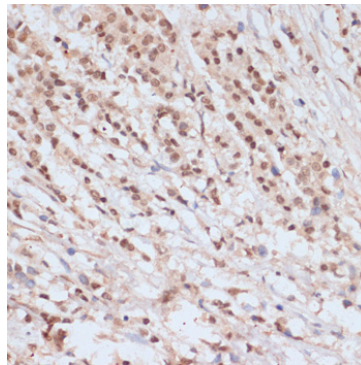
Blocking buffer: 3% BSA.

Detection: ECL Basic Kit (RM00020).

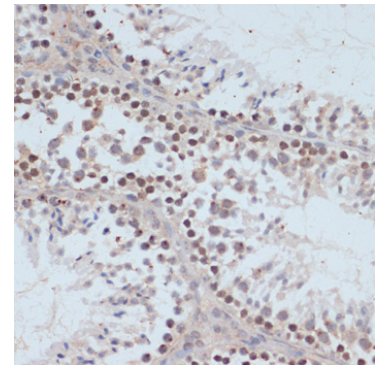
Exposure time: 5s.



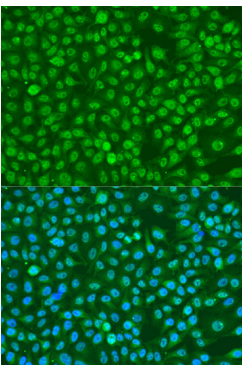
Immunohistochemistry of paraffin-embedded rat testis using Phospho-BRCA1-S1423 antibody (AP0232) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry of paraffin-embedded human breast cancer using Phospho-BRCA1-S1423 antibody (AP0232) 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.



Immunohistochemistry of paraffin-embedded mouse testis using Phospho-BRCA1-S1423 antibody (AP0232) 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 (AP0232) at dilution of 1:100. Blue: DAPI for nuclear staining.