

## Datasheet: AHP2561

**BATCH NUMBER 171539**

<b>Description:</b>	RABBIT ANTI BRCA1 (pSer988)
<b>Specificity:</b>	BRCA1 (pSer988)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µl

### Product Details

#### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/500 - 1/2000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
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<b>Product Form</b>	Purified IgG - liquid
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<b>Antiserum Preparation</b>	Antiserum to BRCA1 (pSer988) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
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<b>Buffer Solution</b>	Phosphate buffered saline
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<b>Preservative</b>	0.02% Sodium Azide
<b>Stabilisers</b>	50% Glycerol

<b>Immunogen</b>	Phospho specific-peptide corresponding to residues surrounding serine 988 of human BRCA1
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#### External Database Links

**UniProt:**

[P38398](https://www.uniprot.org/entry/P38398)

[Related reagents](#)

**Entrez Gene:**[672](#) BRCA1 [Related reagents](#)**Synonyms**

RNF53

**Specificity**

**Rabbit anti BRCA1 (pSer988) antibody** recognizes BRCA1, also known as breast cancer type 1 susceptibility protein and RING finger protein 53, when phosphorylated at serine 988. Breast cancer susceptibility genes BRCA1 and BRCA2 are associated with hereditary breast and ovarian cancers. BRCA1 is a tumor suppressor gene encoding an E3 ubiquitin protein ligase that plays a major role in DNA damage repair ([Roy et al. 2011](#)).

BRCA1 is also involved in the regulation of multiple processes including transcription and cell cycle progression. BRCA1 co-localizes with Chk2 in nuclear foci, in response to DNA damage BCRA1 is phosphorylated at serine 988 by Chk2. This phosphorylation event results in the release and dispersion of BRCA1 and is suggested to be important for the function of BRCA1 in the DNA damage response ([Lee et al. 2000](#)).

**Further Reading**

1. Roy, R. *et al.* (2011) BRCA1 and BRCA2: different roles in a common pathway of genome protection. [Nat Rev Cancer. 12 \(1\): 68-78.](#)
2. Lee, J.S. *et al.* (2000) hCds1-mediated phosphorylation of BRCA1 regulates the DNA damage response. [Nature. 404 \(6774\): 201-4.](#)

**Storage**

This product is shipped at ambient temperature.  
Store at -20°C  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

12 months from date of despatch

**Health And Safety Information**

Material Safety Datasheet documentation #10049 available at:  
<https://www.bio-rad-antibodies.com/SDS/AHP2561>

**Regulatory**

For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)Sheep Anti Rabbit IgG (STAR35...) [RPE](#)Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

### Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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