

## Datasheet: AHP2561

<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.

**Target Species** Human

**Product Form** Purified IgG - liquid

**Antiserum Preparation** 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.

**Buffer Solution** Phosphate buffered saline

**Preservative** 0.02% Sodium Azide  
**Stabilisers** 50% Glycerol

**Immunogen** Phospho specific-peptide corresponding to residues surrounding serine 988 of human BRCA1

### External Database Links

#### UniProt:

[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 BRCA1 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](#)).

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<b>Western Blotting</b>	Due to the presence of phosphoproteins in milk, the use of milk based blocking reagents is not recommended. 1% BSA in PBS or TBS Tween should be used instead.
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<b>Further Reading</b>	<ol style="list-style-type: none"><li>1. Roy, R. <i>et al.</i> (2011) BRCA1 and BRCA2: different roles in a common pathway of genome protection. <a href="#">Nat Rev Cancer. 12 (1): 68-78.</a></li><li>2. Lee, J.S. <i>et al.</i> (2000) hCds1-mediated phosphorylation of BRCA1 regulates the DNA damage response. <a href="#">Nature. 404 (6774): 201-4.</a></li></ol>
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<b>Storage</b>	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.
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<b>Shelf Life</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10049 available at: 10049: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)	<a href="#">FITC</a>
Sheep Anti Rabbit IgG (STAR35...)	<a href="#">RPE</a>
Goat Anti Rabbit IgG (H/L) (STAR124...)	<a href="#">HRP</a>
Goat Anti Rabbit IgG (Fc) (STAR121...)	<a href="#">Biotin</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Sheep Anti Rabbit IgG (2AB02...)	<a href="#">Biotin</a>
Sheep Anti Rabbit IgG (STAR36...)	<a href="#">DyLight@488</a> , <a href="#">DyLight@549</a> , <a href="#">DyLight@649</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a>

### Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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