

Datasheet: AHP2560

Description:	RABBIT ANTI BRCA1 (pSer1423)
Specificity:	BRCA1 (pSer1423)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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 (pSer1423) 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 1423 of human BRCA1

External Database Links

UniProt:

[P38398](#) [Related reagents](#)

Entrez Gene:

[672](#) BRCA1 [Related reagents](#)

Synonyms RNF53

Specificity **Rabbit anti BRCA1 (pSer1423) antibody** recognizes breast cancer type 1 susceptibility protein encoded by BRCA1, also known as RING finger protein 53, when phosphorylated at serine 1423. 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 is reported to be phosphorylated by ATM and ATR at serine 1423 in response to DNA damage ([Tibbetts et al. 2000](#)).

Western Blotting	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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Further Reading	1. Roy, R. <i>et al.</i> (2011) BRCA1 and BRCA2: different roles in a common pathway of genome protection Nat Rev Cancer. 12 (1): 68-78 . 2. Tibbetts, R.S. <i>et al.</i> (2000) Functional interactions between BRCA1 and the checkpoint kinase ATR during genotoxic stress Genes Dev. 14 (23): 2989-3002 .
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Storage	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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Shelf Life	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10049 available at: 10049: https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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Printed on 02 May 2018