



Datasheet for ABIN1513831  
**anti-BRCA1 antibody (AA 120-220)**



[Go to Product page](#)

9 Images

2 Publications

### Overview

|                      |   |
|----------------------|---|
| Quantity:            | 1000 µL   |
| Target:              | BRCA1   |
| Binding Specificity: | AA 120-220  |
| Reactivity:          | Human   |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This BRCA1 antibody is un-conjugated              |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC) |

### Product Details

|                   |  |
|-------------------|--|
| Immunogen:        | A synthetic peptide corresponding to a sequence within amino acids 120-220 of human BRCA1 (NP_009225.1).         |
| Sequence:         | DEVSIIQSMG YRNRAKRLQ SEPENPSLQE TSLSVQLSNL GTVRTLRKQ RIQPQKTSVY<br>IELGSDSSED TVNKATYCSV GDQELLQITP QGTRDEISLD S |
| Isotype:          | IgG  |
| Cross-Reactivity: | Human, Mouse   |
| Characteristics:  | Polyclonal Antibodies  |
| Purification:     | Affinity purification  |

## Target Details

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Target: BRCA1

Alternative Name: BRCA1 ([BRCA1 Products](#))

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.

BRCA1, BRCAI, BRCC1, BROVCA1, FANCS, IRIS, PNCA4, PPP1R53, PSCP, RNF53, Epigenetics & Nuclear Signaling, DNA Damage & Repair, Cancer, Tumor suppressors, Cell Biology & Developmental Biology, Cell Cycle, Centrosome, G2/M DNA Damage Checkpoint, Ubiquitin, Ubiquitin-Proteasome Signaling Pathway, BRCA1

Molecular Weight: 7 kDa/78-85 kDa/202-210 kDa

Gene ID: 672

UniProt: [P38398](#)

Pathways: [Cell Division Cycle](#), [DNA Damage Repair](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Positive Regulation of Response to DNA Damage Stimulus](#)

## Application Details

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Application Notes: WB, 1:500 - 1:2000, IHC, 1:50 - 1:200

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.

## Handling

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|                    |  |
|--------------------|--|
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice:   | Avoid freeze / thaw cycles   |
| Storage:           | -20 °C   |
| Storage Comment:   | Store at -20°C. Avoid freeze / thaw cycles.  |

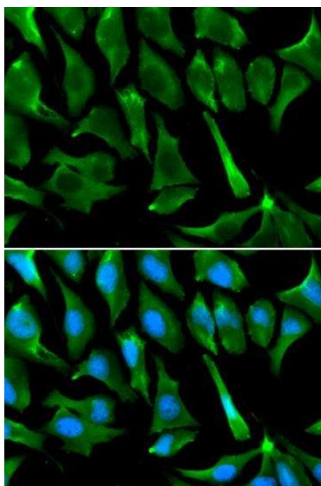
## Publications

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- Product cited in:
- Yin, Liu, Peng, Peng, Yu, Gao, Yuan, Zhu, Cao, He, Gong, Sun, Fan, Li: "PARP inhibitor veliparib and HDAC inhibitor SAHA synergistically co-target the UHRF1/BRCA1 DNA damage repair complex in prostate cancer cells." in: **Journal of experimental & clinical cancer research : CR**, Vol. 37, Issue 1, pp. 153, (2018) ([PubMed](#)).
- Penn, Yang, Zong, Lim, Cole, Yang, Baker, Goonewardena, Buckanovich: "Therapeutic Impact of Nanoparticle Therapy Targeting Tumor-Associated Macrophages." in: **Molecular cancer therapeutics**, Vol. 17, Issue 1, pp. 96-106, (2018) ([PubMed](#)).

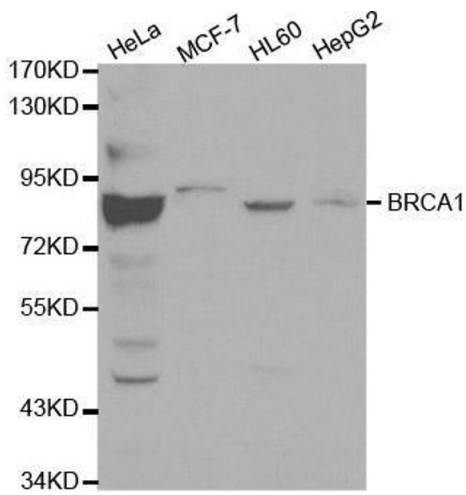
## Images

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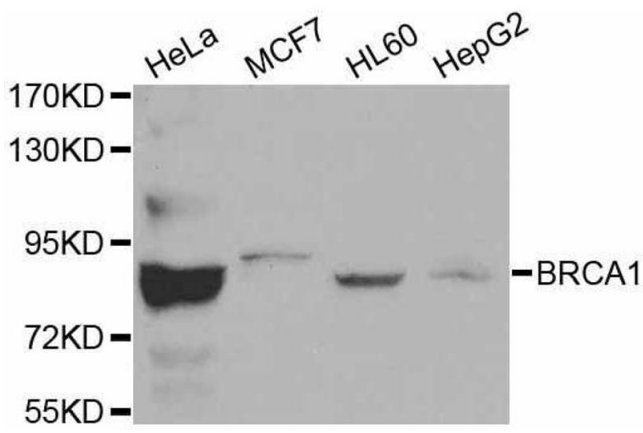
### Immunofluorescence

**Image 1.** Immunofluorescence analysis of A549 cell using BRCA1 antibody. Blue: DAPI for nuclear staining.



### Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using BRCA1 antibody.



### Western Blotting

**Image 3.** Western blot analysis of extracts of various cell lines, using BRCA1 antibody.

Please check the [product details page](#) for more images. Overall 9 images are available for ABIN1513831.