

## Rabbit BRCA1 Polyclonal Antibody | anti-BRCA1 antibody

BRCA1 antibody - middle region

| CATALOG # | HOST   | REACTIVITY             | APPLICATIONS                       |
|-----------|--------|------------------------|------------------------------------|
| AAA197569 | Rabbit | Cow, Human, Mouse, Rat | Western Blot, Immunohistochemistry |

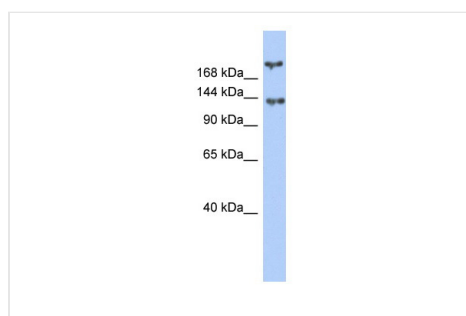
### PRODUCT SYNONYMS

BRCA1; Polyclonal Antibody; BRCA1 antibody - middle region; anti-BRCA1 antibody

### PRODUCT SPECIFICATIONS

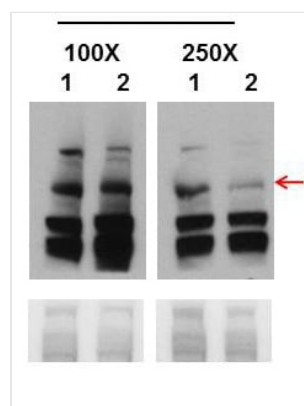
|                                                 |                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                |
| Reactivity                                      | Cow, Human, Mouse, Rat                                                                                                                                |
| Clonality                                       | Polyclonal                                                                                                                                            |
| Purity/Purification                             | Affinity Purified                                                                                                                                     |
| Form/Format                                     | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.                                                     |
| Sequence                                        | Synthetic peptide with the following region: DD LLDDGEIKED TSFAENDIKE SSAVFSKSVQ KGELSRSPSP FTHTHLAQ                                                  |
| Sequence Length                                 | 1863                                                                                                                                                  |
| Applicable Applications for anti-BRCA1 antibody | WB (Western Blot), IHC (Immunohistochemistry)                                                                                                         |
| Homology                                        | Cow: 75%; Human: 100%; Mouse: 79%; Rat: 86%                                                                                                           |
| Immunogen                                       | The immunogen is a synthetic peptide directed towards the middle region of human BRCA1                                                                |
| Preparation and Storage                         | For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

### IMAGES


**WB (Western Blot)**

WB Suggested Anti-BRCA1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive

Control: Human Small Intestine


**IHC (Immunohistochemistry)**

Western Blot with Cell line 293T (Embryonic human kidney cells) tissue

## ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-BRCA1 antibody | <p>This is a rabbit polyclonal antibody against BRCA1. It was validated on Western Blot using a cell lysate as a positive control.</p> <p>Target Description: The BRCA1-BARD1 heterodimer coordinates a diverse range of cellular pathways such as DNA damage repair, ubiquitination and transcriptional regulation to maintain genomic stability. BRCA1 acts by mediating ubiquitin E3 ligase activity that is required for its tumor suppressor function. BRCA1 plays a central role in DNA repair by facilitating cellular response to DNA repair. BRCA1 is required for appropriate cell cycle arrests after ionizing irradiation in both the S-phase and the G2 phase of the cell cycle. BRCA1 is involved in transcriptional regulation of P21 in response to DNA damage. BRCA1 is also required for FANCD2 targeting to sites of DNA damage. It may function as a transcriptional regulator. BRCA1 inhibits lipid synthesis by binding to inactive phosphorylated ACACA and preventing its dephosphorylation. This gene encodes a nuclear phosphoprotein that plays a role in maintaining genomic stability and 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 BASC for BRCA1-associated genome surveillance complex. This gene product associates with RNA polymerase II, and through the C-terminal domain, also interacts with histone deacetylase complex. 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 have been described for this gene but only some have had their full-length natures identified.</p> |
| Product Categories/Family for anti-BRCA1 antibody   | <a href="#">Polyclonal</a> ; <a href="#">Transcription Factor</a> ; <a href="#">Transcription Regulation</a> ; <a href="#">Cell Cycle Proteins</a> ; <a href="#">Transcription Regulation</a> ; <a href="#">Chromatin &amp; Nuclear Signaling</a> ; <a href="#">Signal Transduction</a> ; <a href="#">Epigenetics</a> ; <a href="#">E3 &amp; Ubiquitin</a> ; <a href="#">Disease Related</a> ; <a href="#">DNA/RNA/Protein Interactions</a> ; <a href="#">Meiosis/Mitosis/Cell</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                 |
|----------------------------------|-----------------------------------------------------------------|
| NCBI GI #                        | 6552299                                                         |
| NCBI GeneID                      | 672                                                             |
| NCBI Accession #                 | NP_009225                                                       |
| NCBI GenBank Nucleotide #        | NM_007294                                                       |
| UniProt Accession #              | P38398                                                          |
| Molecular Weight                 | 208kDa                                                          |
| NCBI Official Full Name          | breast cancer type 1 susceptibility protein isoform 1           |
| NCBI Official Synonym Full Names | BRCA1 DNA repair associated                                     |
| NCBI Official Symbol             | BRCA1                                                           |
| NCBI Official Synonym Symbols    | IRIS; PSCP; BRCAI; BRCC1; FANCS; PNCA4; RNF53; BROVCA1; PPP1R53 |
| NCBI Protein Information         | breast cancer type 1 susceptibility protein                     |
| UniProt Protein Name             | Breast cancer type 1 susceptibility protein                     |
| UniProt Gene Name                | <b>BRCA1</b>                                                    |
| UniProt Synonym Gene Names       | RNF53                                                           |
| UniProt Entry Name               | BRCA1_HUMAN                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/brca1-antibody-western-blot-immunohistochemistry-elisa/197569>