



Datasheet for ABIN6940661  
**anti-BRCA1 antibody (AA 445-620)**



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3 Images

Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µg   |
| Target:              | BRCA1  |
| Binding Specificity: | AA 445-620   |
| Reactivity:          | Human  |
| Host:                | Mouse  |
| Clonality:           | Monoclonal   |
| Conjugate:           | This BRCA1 antibody is un-conjugated                                     |
| Application:         | Immunohistochemistry (IHC), Immunostaining (ISt), Staining Methods (StM) |

Product Details

|               |   |
|---------------|---|
| Immunogen:    | Recombinant human BRCA1 protein fragment (around aa445-620) (exact sequence is proprietary) |
| Clone:        | BRCA1-1398  |
| Isotype:      | IgG1 kappa  |
| Purification: | Purified by Protein A/G   |

Target Details

|                   |  |
|-------------------|--|
| Target:           | BRCA1  |
| Alternative Name: | BRCA1 ( <a href="#">BRCA1 Products</a> )   |
| Background:       | This gene encodes a nuclear phosphoprotein that plays a role in maintaining genomic stability, |

## Target Details

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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.

|                   |   |
|-------------------|---|
| Molecular Weight: | 220kDa  |
| Gene ID:          | 672   |
| UniProt:          | <a href="#">P38398</a>  |
| Pathways:         | <a href="#">Cell Division Cycle</a> , <a href="#">DNA Damage Repair</a> , <a href="#">Intracellular Steroid Hormone Receptor Signaling Pathway</a> , <a href="#">Positive Regulation of Response to DNA Damage Stimulus</a> |

## Application Details

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|                    |   |
|--------------------|---|
| Application Notes: | Positive Control: A431 or HeLa cells. Breast, Ovarian or Renal Cell Carcinoma.<br>Known Application: Immunohistochemistry (Formalin-fixed) (2-5 µg/mL for 60 minutes at RT)(Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined. |
| Restrictions:      | For Research Use only   |

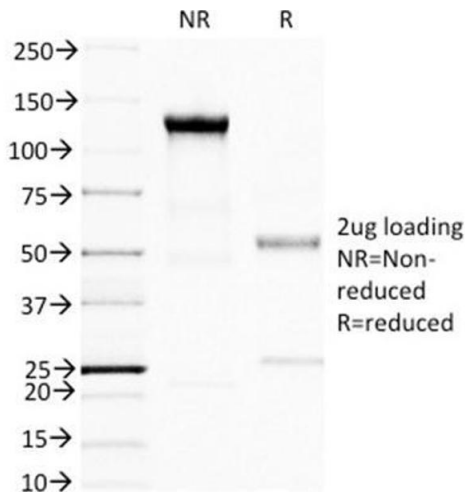
## Handling

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|                    |  |
|--------------------|--|
| Concentration:     | 200 µg/mL  |
| Buffer:            | 10 mM PBS with 0.05 % BSA & 0.05 % azide.  |
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | 4 °C,-80 °C  |
| Storage Comment:   | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody                      |

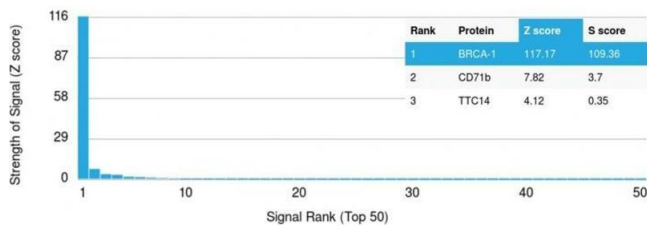
is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



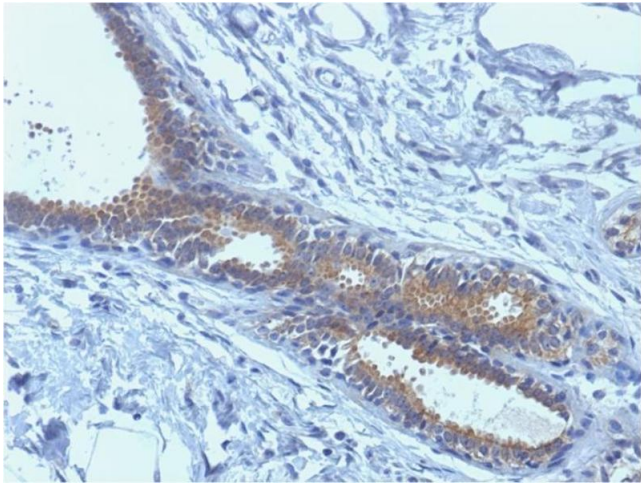
### SDS-PAGE

**Image 1.** SDS-PAGE Analysis Purified BRCA1 Mouse Monoclonal Antibody (BRCA1/1398). Confirmation of Integrity and Purity of Antibody.



### Protein Array

**Image 2.** Analysis of Protein Array containing more than 19,000 full-length human proteins using BRCA-1 Mouse Monoclonal Antibody (BRCA1/1398) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to



29.

### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with BRCA1 Mouse Monoclonal Antibody (BRCA1/1398).