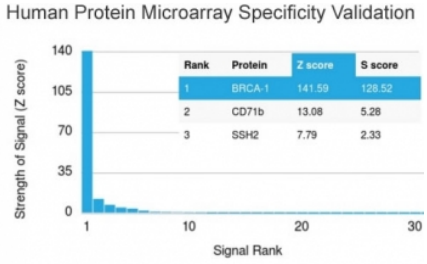
# BRCA1 Antibody [clone BRCA1/2985] (V8102)

| Catalog No. | Formulation | Size |
|---|---|---|
| V8102-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V8102-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V8102SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | BRCA1/2985 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P38398 |
| **Applications** | ELISA (coating) : 2-4ug/ml (order BSA-free format) |
| **Limitations** | This BRCA1 antibody is available for research use only. |




Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using BRCA1 antibody (clone BRCA1/2985). These results demonstrate the foremost specificity of the BRCA1/2985 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

## Description

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.

Additional studies involving homologous recombination, hereditary cancer susceptibility, and genomic stability pathways may benefit from our BRCA1 antibody page featuring clone BRCA1/1398 with HuProt protein microarray specificity validation.

## Application Notes

Optimal dilution of the BRCA1 antibody should be determined by the researcher.

## Immunogen

A recombinant human partial protein (amino acids 445-620) was used as the immunogen for this BRCA1 antibody.

## Storage

Store the BRCA1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).


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