

Datasheet for ABIN7265923  
**anti-BRCA1 antibody (AA 400-699)**[Go to Product page](#)

## 3 Images

## Overview

Quantity:	100 µL
Target:	BRCA1
Binding Specificity:	AA 400-699
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BRCA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Purpose:	BRCA1 Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 400-699 of human BRCA1 (NP_009230.2).
Sequence:	LDDRWMHSC SGSLQNRNYP SQEELIKVVD VEEQQLLEESG PHDLTETSYL PRQDLEGTPY LESGISLFS DPESDPSEDR APESARVGNI PSSTSALKVP QLKVAESAQS PAAAHTTDTA GYNAMEESVS REKPELTAST ERVNRKMSMV VSGLTPEEFM LVYKFARKHH ITLTNLITEE TTHVVMKTDA EFVCERTLKY FLGIAGGKWV VSYFWVTQSI KERKMLNEHD FEVRGDVVNG RNHQGPKRAR ESQDRKIFRG LEICCYGPFT NMPTGCPPNC GCAARCLDRG QWLPCNWADV
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

## Product Details

Purification: Affinity purification

## Target Details

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

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

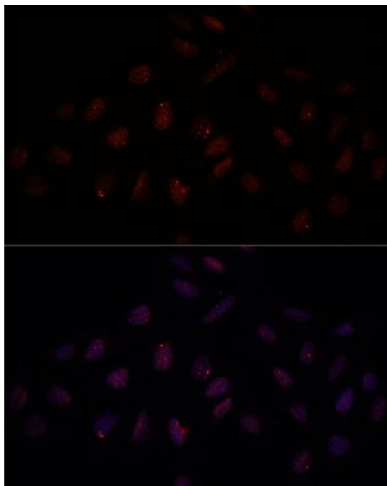
Application Notes: WB, 1:500 - 1:2000, IHC, 1:50 - 1:200, IF, 1:50 - 1:200

Restrictions: For Research Use only

## Handling

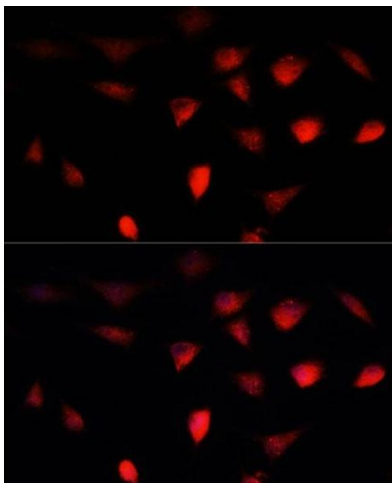
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

## Images



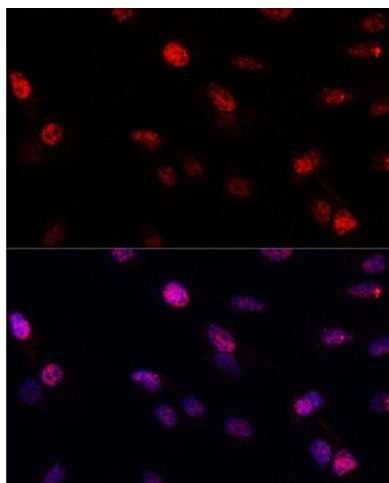
### Immunofluorescence

**Image 1.** Immunofluorescence analysis of U-2 OS cells using BRC antibody (1318) at dilution of 1:100. Blue: DAPI for nuclear staining.



### Immunofluorescence

**Image 2.** Immunofluorescence analysis of L929 cells using BRC antibody (1318) at dilution of 1:100. Blue: DAPI for nuclear staining.



#### Immunofluorescence

**Image 3.** Immunofluorescence analysis of C6 cells using BRC antibody (1318) at dilution of 1:100. Blue: DAPI for nuclear staining.