



# Anti-BRCA1 (aa 1581-1670) polyclonal antibody (DPAB-DC2959)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

**Antigen 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. Many alternatively spliced transcript variants, some of which are disease-associated mutations, have been described for this gene, but the full-length natures of only some of these variants has been described. A related pseudogene, which is also located on chromosome 17, has been identified.

**Immunogen**

BRCA1 (NP\_009225, 1581 a.a. ~ 1670 a.a) partial recombinant protein with GST tag. The sequence is  
**EDRAPESARVGNIPSTSALKVPLKVAESAQGPAAHTTDAGYNAMEESVSREKPELT  
ASTERVNKRMSMVSGLTPEEFMLVYKFAR**

**Source/Host**

Mouse

**Species Reactivity**

Human

**Conjugate**

Unconjugated

**Applications**

WB (Recombinant protein), ELISA,

**Size**

50 µl

**Buffer**

50 % glycerol

---

<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

---

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">BRCA1 breast cancer 1, early onset [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	BRCA1
<b>Synonyms</b>	BRCA1; breast cancer 1, early onset; IRIS; PSCP; BRCA1; BRCC1; PNCA4; RNF53; BROVCA1; PPP1R53; breast cancer type 1 susceptibility protein; RING finger protein 53; BRCA1/BRCA2-containing complex, subunit 1; protein phosphatase 1, regulatory subunit 53; breast and ovarian cancer susceptibility protein 1; breast and ovarian cancer susceptibility protein 1;
<b>Entrez Gene ID</b>	<a href="#">672</a>
<b>Protein Refseq</b>	<a href="#">NP_009225</a>
<b>UniProt ID</b>	<a href="#">P38398</a>
<b>Chromosome Location</b>	17q21
<b>Pathway</b>	ATF-2 transcription factor network; ATM mediated response to DNA double-strand break; Aurora A signaling; BRCA1-associated genome surveillance complex (BASC)
<b>Function</b>	DNA binding; RNA binding; androgen receptor binding; enzyme binding

---