



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 EDRAPESARVGNIPSSTSALKVPQLKVAESAQGPAAHTTDTAGYNAMEESVSREKPELT ASTERVKNRMSMVSGLTPEEFMLVYKFAR
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol

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

GENE INFORMATION

Gene Name	BRCA1 breast cancer 1, early onset [Homo sapiens (human)]
Official Symbol	BRCA1
Synonyms	BRCA1; breast cancer 1, early onset; IRIS; PSCP; BRCAI; 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;
Entrez Gene ID	672
Protein Refseq	NP_009225
UniProt ID	P38398
Chromosome Location	17q21
Pathway	ATF-2 transcription factor network; ATM mediated response to DNA double-strand break; Aurora A signaling; BRCA1-associated genome surveillance complex (BASC)
Function	DNA binding; RNA binding; androgen receptor binding; enzyme binding