



Anti-BRCA1 (aa 1800-1863) polyclonal antibody (CPBT-67621RH)

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

PRODUCT INFORMATION

Product Overview

This product specifically recognises human BRCA1 (breast cancer gene 1), a 220kDa nuclear phosphoprotein and tumour suppressor, involved in DNA damage repair, recombination and transcriptional regulation. The interaction between BRCA1 and BARD1 (BRCA1 associated RING domain 1) through an amino-terminal RING finger domain, is implicated in RNA processing following DNA damage, and also in the mediation of tumour suppression by BRCA1. Gene mutations in BRCA1 are known to greatly enhance susceptibility to inherited breast, breast-ovarian and prostate cancers, and BRCA1 is therefore commonly used as a diagnostic marker for breast cancer. Western Blotting detects a band of approximately 220kDa in HeLa cell nuclear extract.

Specificity	BRCA1
Immunogen	Synthetic peptide corresponding to an epitope within amino acid residues 1800-1863 of human BRCA1 (NP_009225.1).
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Conjugate	Unconjugated
Applications	IP; WB
Format	Purified IgG - liquid
Size	50 µg
Preservative	0.1% Sodium Azide

Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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; FANCS; PNCA4; RNF53; BROVCA1; PPP1R53; breast cancer type 1 susceptibility protein; RING finger protein 53; Fanconi anemia, complementation group S; BRCA1/BRCA2-containing complex, subunit 1;
Entrez Gene ID	672
Protein Refseq	NP_009225
UniProt ID	P38398
Chromosome Location	17q21
Pathway	ATF-2 transcription factor network; ATM mediated phosphorylation of repair proteins; ATM mediated response to DNA double-strand break; Androgen receptor signaling pathway; Aurora A signaling; BARD1 signaling events; BRCA1-associated genome surveillance complex (BASC); Cell Cycle;
Function	DNA binding; RNA binding; androgen receptor binding; damaged DNA binding; enzyme binding; ligase activity; protein binding; transcription coactivator activity; transcription regulatory region DNA binding; tubulin binding; ubiquitin protein ligase binding; ubiquitin-protein transferase activity; zinc ion binding;