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Datasheet for ABIN7504943

BRCA1 Protein (AA 1610-1863) (His tag)

Overview

Quantity:	100 µg
Target:	BRCA1
Protein Characteristics:	AA 1610-1863
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRCA1 protein is labelled with His tag.

Product Details

Sequence:	Ser1610-Tyr1863
Characteristics:	A DNA sequence encoding the Human BRCA1 (P38398-1) (Ser1610-Tyr1863) was expressed with a polyhistidine tag at the N-terminus.
Purity:	>95 % as determined by reducing SDS-PAGE.

Target Details

Target:	BRCA1
Alternative Name:	BRCA1 (BRCA1 Products)
Background:	Background: RCA1,also named as RNF53,plays a central role in DNA repair by facilitating cellular response to DNA repair. It is required for appropriate cell cycle arrests after ionizing irradiation in both the S-phase and the G2 phase of the cell cycle. The BRCA1-BARD1 heterodimer coordinates a diverse range of cellular pathways such as DNA damage

Target Details

repair,ubiquitination and transcriptional regulation to maintain genomic stability. BRCA1 acts by mediating ubiquitin E3 ligase activity that is required for its tumor suppressor function. It is involved in transcriptional regulation of P21 in response to DNA damage. BRCA1 is required for FANCD2 targeting to sites of DNA damage. It may function as a transcriptional regulator. BRCA1 inhibits lipid synthesis by binding to inactive phosphorylated ACACA and preventing its dephosphorylation. The antibody is specific to BRCA1. BRCA1 appears to produce multiple splice variants. BRCA1 is a nuclear protein with a molecular mass of 220 kDa. The present study describes the isolation and expression of two cDNAs of BRCA1,including a splice variant designated BRCA1D672-4095. BRCA1D672-4095 is generated by exclusion of exon 11 by in-frame splicing and produces a 97 kDa protein. In contrast to BRCA1,BRCA1D672-4095 localizes to the cytoplasm.

Synonym: BRCA 1,BRCA1,BRCA1 DNA repair associated,BRCA1/BRCA2 containing complex subunit 1,BRCA1/BRCA2-containing complex,subunit 1,BRCA1,BRCAI,BRCC 1,BRCC1,Breast and ovarian cancer susceptibility protein 1,Breast Cancer 1,Breast Cancer 1 Early Onset,Breast cancer type 1 susceptibility protein,BROVCA1,FANCS,IRIS,PNCA4,PPP1R53,Protein phosphatase 1 regulatory subunit 53,PSCP,RING finger protein 53,RNF53

Molecular Weight: 28.8 kDa

Pathways: [Cell Division Cycle](#), [DNA Damage Repair](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Positive Regulation of Response to DNA Damage Stimulus](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4., 5 % trehalose, 5 % mannitol, 0.01 % tween-80.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 12 months