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Datasheet for ABIN7319945 BRCA2 Protein (His tag)

Overview

Quantity:	100 µg
Target:	BRCA2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This BRCA2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human BRCA2 Protein (His Tag)
Sequence:	Thr2350-Val2545
Characteristics:	A DNA sequence encoding the Human BRCA2 (P51587-1) (Thr2350-Val2545) was expressed with a polyhistidine tag at the N-terminus.
Purity:	>85 % as determined by reducing SDS-PAGE.
Biological Activity Comment:	Immunogen(E-AB-40288)

Target Details

Target:	BRCA2
Alternative Name:	BRCA2 (BRCA2 Products)
Background:	Background: Inherited mutations in BRCA1 and this gene, BRCA2, confer increased lifetime risk

Target Details

of developing breast or ovarian cancer. Both BRCA1 and BRCA2 are involved in maintenance of genome stability, specifically the homologous recombination pathway for double-strand DNA repair. The BRCA2 protein contains several copies of a 70 aa motif called the BRC motif, and these motifs mediate binding to the RAD51 recombinase which functions in DNA repair. BRCA2 is considered a tumor suppressor gene, as tumors with BRCA2 mutations generally exhibit loss of heterozygosity (LOH) of the wild-type allele.

Synonym: BRCA 2, BRCA1/BRCA2 containing complex subunit 2, Brca2, BRCA2, DNA repair associated, BRCA2, BRCC 2, BRCC2, Breast and ovarian cancer susceptibility gene early onset, breast and ovarian cancer susceptibility protein 2, Breast cancer 2 early onset, Breast Cancer 2 tumor suppressor, Breast cancer susceptibility protein BRCA2, Breast cancer type 2 susceptibility protein, BROVCA2, FACD, FAD 1, FAD, FAD1, FANCB, FANCD 1, FANCD, FANCD1, FANCD1 gene, Fanconi anemia complementation group D1, Fanconi anemia group D1 protein, GLM3, mutant
BRCA2, OTTHUMP00000018803, OTTHUMP00000042401, PNCA2, XRCC11

Molecular Weight: 22.1kDa

Pathways: [DNA Damage Repair](#), [M Phase](#), [Maintenance of Protein Location](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

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.