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## Datasheet for ABIN2669409 BRCA1 Protein (His tag)



Overview	
Quantity:	2 µg
Target:	BRCA1
Origin:	Human
Source:	Baculovirus
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRCA1 protein is labelled with His tag.
Application:	In vitro Assay (in vitro), Proliferation Assay (ProA), Protein Interaction (PI)
Product Details	
Characteristics:	The wild-type BRCA1 protein (1-1863 residues, accession number NM_007294) was expressed in a baculovirus system with an amino terminal polyhistidine tag and purified by an affinity column in combination with FPLC chromatography. The purified recombinant protein is greater than 95 % homogeneous and contains no detectable protease, DNase and RNase activity.
Purification:	Purified by an affinity column in combination with FPLC chromatography.
Purity:	The purified recombinant protein is greater than 95 % homogeneous and contains no detectable protease, DNase and RNase activity.

## Target Details

Target:	BRCA1
Alternative Name:	BRCA1 (BRCA1 Products)
Background:	Breast cancer type 1 susceptibility (BRCA1) protein is a tumor suppressor that is expressed in

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	breast tissue cells and other tissues where it primarily functions to sense and repair DNA
	damage. BRCA1 is an E3 ubiquitin-protein ligase that specifically mediates the formation of
	'Lys6'-linked polyubiquitin chains and plays a central role in DNA repair by facilitating cellular
	responses to DNA damage. The E3 ubiquitin-protein ligase activity is required for its tumor
	suppressor function. BRCA1 associates with other tumor suppressors, DNA repair proteins, and
	signal transducers in a large complex known as the BRCA1-associated genome surveillance
	complex (BASC) that functions to identify double-strand DNA breaks and either repair them or
	destroy cells where DNA damage cannot be repaired. BRCA1 also associates with RNA pol II
	and histone deacetylase complexes to modulate transcription. In addition to its role in
	ubiquitination, DNA damage repair and transcriptional regulation, it is known to be required for
	normal cell cycle progression. Defects in BRCA1 are a cause of susceptibility to familial breast-
	ovarian cancer type 1 (BROVCA1), a condition associated with familial predisposition to cancer
	of the breast and ovaries, and pancreatic cancer type 4 (PNCA4).
Pathways:	Cell Division Cycle, DNA Damage Repair, Intracellular Steroid Hormone Receptor Signaling
	Pathway, Positive Regulation of Response to DNA Damage Stimulus
Application Details	
Application Notes:	Recombinant BRCA1 is suitable for in vitro function studies including transcription and DNA
	repair, for protein-protein interaction assays and cell growth assays. 1 ng is sufficient for a
	gelshift assay in a 20 $\mu L$ reaction volume, 50 ng is sufficient for reconstituted transcription
	assays and 100 ng is sufficient for protein-protein interaction studies. The molecular weight of
	the protein is $\sim$ 205 kDa. NOTE: The presence of Poly [d(I-C)] in buffers may affect protein
	functionality and should be avoided.
Restrictions:	For Research Use only

## Handling

Concentration:

0.4 µg/µL