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## BRCA1 Recombinant antibody

Catalog Number:83390-6-RR

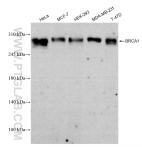


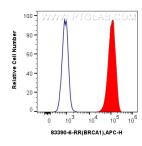
Catalog Number: 83390-6-RR	GenBank Accession Number: BC115037	Purification Method: Protein A purfication	
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype:	GeneID (NCBI): 672 UNIPROT ID: P38398 Full Name: breast cancer 1, early onset	CloneNo.: 240285E10 Recommended Dilutions: WB 1:5000-1:50000	
IgG Immunogen Catalog Number: AG17946	Calculated MW: 1863 aa, 208 kDa Observed MW: 300 kDa		
Tested Applications: WB, FC (Intra), ELISA Species Specificity: human	WB : Hel	Positive Controls: WB : HeLa cells, MCF-7 cells, HEK-293 cells, MDA-MB- 231 cells, T-47D cells	
BRCA1, 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 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 an 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, BRCA10672-4095 localizes to the cytoplasm.			
	83390-6-RR Size: 100ul, Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG17946 Tested Applications: WB, FC (Intra), ELISA Species Specificity: human BRCA1, also named as RNF53, plays a required for appropriate cell cycle arm cycle. The BRCA1-BARD1 heterodimer ubiquitination and transcriptional reg ligase activity that is required for its t response to DNA damage. BRCA1 is ne transcriptional regulator. BRCA1 in hit preventing its dephosphorylation. The variants. BRCA1 is a nuclear protein w expression of two cDNAs of BRCA1, in generated by exclusion of exon 11 by	83390-6-RR BC115037   Size: GeneID (NCBI):   100ul, Concentration: 1000 ug/ml by 672   Nanodrop; UNIPROT ID:   Source: P38398   Rabbit Full Name:   Isotype: breast cancer 1, early onset   IgG Calculated MW:   Immunogen Catalog Number: 1863 aa, 208 kDa   AG17946 Observed MW:   300 kDa 300 kDa   Tested Applications:   WB, FC (Intra), ELISA WB: Hell   Species Specificity: 231 cell:   human Streed arests after ionizing irradiation in   cycle. The BRCA1-BARD1 heterodimer coordinates a diverse range of cubiquitination and transcriptional regulation to maintain genomic stat   ligase activity that is required for its tumor suppressor function. It is ir response to DNA damage. BRCA1 is required for FANCD2 targeting to stranscriptional regulator. BRCA1 is required for FANCD2 targeting to stranscriptional regulator. BRCA1 is a nuclear protein with a molecular mass of 220 kDe expression of two cDNAs of BRCA1, including a splice variant designa generated by exclusion of exon 11 by in-frame splicing and produces	

For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

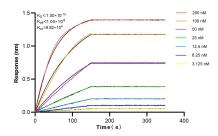
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## Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 83390-6-RR (BRCA1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. 1x10^6 MCF-7 cells were intracellularly stained with 0.25 ug BRCA1 Recombinant antibody (83390-6-RR, Clone:240285E10) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLl) kinetic assays of 83390-6-RR against Human BRCA1 were performed. The affinity constant is below 1 pM.