

For Research Use Only

BRCA1 Polyclonal antibody

Catalog Number: 22362-1-AP

Featured Product

49 Publications



Basic Information

Catalog Number: 22362-1-AP	GenBank Accession Number: BC115037	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 600 ug/ml by Nanodrop;	GeneID (NCBI): 672	Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:500-1:2000
Source: Rabbit	UNIPROT ID: P38398	
Isotype: IgG	Full Name: breast cancer 1, early onset	
Immunogen Catalog Number: AG17946	Calculated MW: 1863 aa, 208 kDa	
	Observed MW: 300 kDa	

Applications

Tested Applications: WB, IP, IHC, ELISA	Positive Controls: WB : MCF-7 cells, IP : MCF-7 cells, IHC : human ovary tumor tissue, human breast cancer tissue, rat testis tissue, mouse testis tissue, human lung cancer tissue
Cited Applications: WB, IHC, IF, IP, ChIP	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

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 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.

Notable Publications

Author	Pubmed ID	Journal	Application
X Bian	28945226	Oncogene	WB,IHC
Limei Ji	34455779	J Med Chem	WB
Jingyuan Sun	33087136	J Exp Clin Cancer Res	WB

Storage

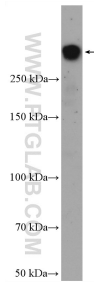
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

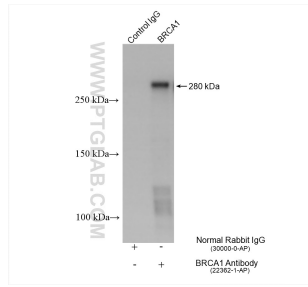
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

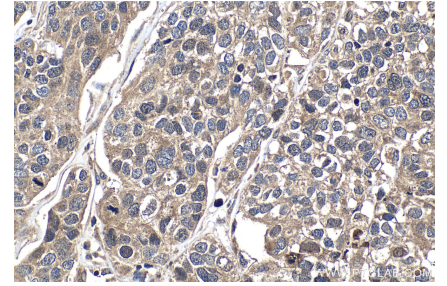
Selected Validation Data



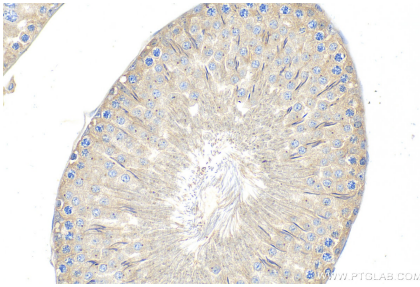
MCF-7 cells were subjected to SDS PAGE followed by western blot with 22362-1-AP (BRCA1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



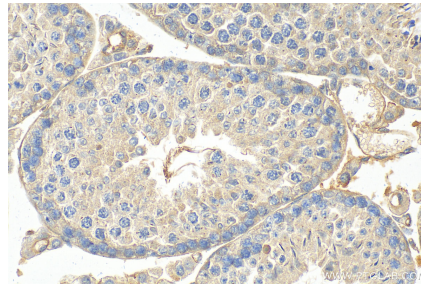
IP result of anti-BRCA1 (IP:22362-1-AP, 4ug; Detection:22362-1-AP 1:6000) with MCF-7 cells lysate 760 ug.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 22362-1-AP (BRCA1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 22362-1-AP (BRCA1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 22362-1-AP (BRCA1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).