For Research Use Only

## TOPBP1 Polyclonal antibody

Catalog Number:23340-1-AP 2 Publications



Basic Information	Catalog Number: 23340-1-AP	GenBank Accession Numb BC126209	er: Purification Met Antigen Affinity							
	Size:	GeneID (NCBI):	Recommended	Recommended Dilutions:						
	method using BSA as the standard; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG18961		WB 1:500-1:100	WB 1:500-1:1000						
		UNIT KOT TD.								
		Q92547 Full Name: topoisomerase (DNA) II binding protein 1 Calculated MW: 1522 aa, 171 kDa Observed MW: 171 kDa								
						Tested Applications:	Do	citivo Controlo		
					Applications	Tested Applications: WB, ELISA	Positive Controls:			
						Cited Applications: WB, IF				
						Species Specificity: human				
						Cited Species: human, mouse				
Background Information	Human DNA topoisomerase II binding protein 1 (TopBP1) contains eight BRCT motifs that are found in proteins regulating the DNA damage response, transcription, and replication (1). In addition, TopBP1 shares sequence similarity with the fission yeast Rad4/Cut5 protein and the budding yeast DPB11 protein, both of which are require for DNA damage control and/or replication checkpoint control (2,3). Phosphorylation of TopBP1 occurs in response t DNA double-strand breaks and replication blocks (2). TopBP1 forms nuclear foci and localizes to the sites of DNA damage or the arrested replication forks (2,3). Downregulation of TopBP1 leads to reduced cell survival, probably due to increased apoptosis (2). TopBP1 functions as a transcriptional coactivator by enhancing the human papillomavirus (HPV) transcription/replication factor E2 (1). In addition, the HECT-domain ubiquitin ligase, hHYD, cooperates with TopBP1 in DNA damage response (4). TopBP1 specifically interacts with the C-terminal region of topoisomerase II beta, which suggests a supportive role for TopBP1 in the catalytic reactions of topoisomerase II beta through transient breakages of DNA strands (5). The gene encoding TopBP1 maps to chromosome 3q22.2 (5).									
Notable Publications	Author Pu	bmed ID Journal		Application						
		284939 Biol Repro	bd	IF						
		296976 Cell Deat		WB						
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer:	er shipment. % glycerol pH 7.3.								

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

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## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 23340-1-AP (TOPBP1 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.