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# Datasheet for ABIN968690 anti-TOPBP1 antibody (AA 204-416)

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## Overview

Quantity:	50 µg
Target:	TOPBP1
Binding Specificity:	AA 204-416
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TOPBP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

# Product Details

Immunogen:	Human TopBP1 aa. 204-416
Clone:	33-TopBP1
Isotype:	lgG1
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
	2. Please refer to us for technical protocols.
	3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide
	compounds in running water before discarding to avoid accumulation of potentially explosive
	deposits in plumbing.
	4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity
	chromatography.

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Target Details		
Target:	TOPBP1	
Alternative Name:	TopBP1 (TOPBP1 Products)	
Background:	Eukaryotic DNA topoisomerase II, a ubiquitous ATP-dependent type II topoisomerase, is an essential nuclear enzyme in DNA replication and transcription, chromatin segregation, and cell cycle progression. Topoisomerases transiently break a pair of complementary strands in double-stranded DNA to form a gate for the passage of duplex DNA. Two isoforms of DNA topoisomerase II have been identified: topo IIalpha and topo IIbeta. These exhibit a high degree of homology, except for some divergence in the C-terminal region. Both contain multiple bipartite nuclear localization sequences (NLS) that mediate their subnuclear localization. DNA Topoisomerase II Binding Protein 1 (TopBP1) binds the C-terminal region of Topo IIbeta via its N-terminal region. In addition, TopBP1 contains a putative ADP-ribosylation site, two N-terminal NLS domains, and 8 repeating BRCA1 C-terminal (BRCT) domains found in DNA repair proteins, such as BRCA1, XRCC1, and Rad4. The BRCT domains of TopBP1 have been shown to bind DNA breaks, DNA nicks, and DNA termini, but not circular intact DNA. Thus, TopBP1 may localize topoisomerases to sites of DNA damage. Synonyms: Topoisomerase II Binding Protein 1	
Molecular Weight:	161 kDa	
Pathways:	Chromatin Binding	
Application Details		
Comment:	Related Products: ABIN968537, ABIN967389	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	250 μg/mL	
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	

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-20 °C

Storage:

Handling	
Storage Comment:	Store undiluted at -20° C.
Publications	
Product cited in:	Yamane, Katayama, Tsuruo: "The BRCT regions of tumor suppressor BRCA1 and of XRCC1
	show DNA end binding activity with a multimerizing feature." in: Biochemical and biophysical
	research communications, Vol. 279, Issue 2, pp. 678-84, (2001) (PubMed).
	Yamane, Tsuruo: "Conserved BRCT regions of TopBP1 and of the tumor suppressor BRCA1
	bind strand breaks and termini of DNA." in: <b>Oncogene</b> , Vol. 18, Issue 37, pp. 5194-203, (1999) (
	PubMed).
	Yamane, Kawabata, Tsuruo: "A DNA-topoisomerase-II-binding protein with eight repeating
	regions similar to DNA-repair enzymes and to a cell-cycle regulator." in: European journal of
	biochemistry / FEBS, Vol. 250, Issue 3, pp. 794-9, (1998) (PubMed).

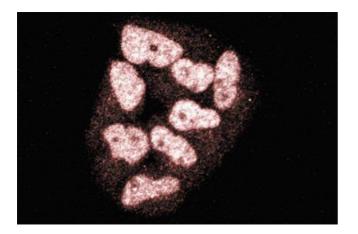
# Images



## Western Blotting

**Image 1.** Western blot analysis of TopBP1 on a Jurkat cell lysate (Human T-cell leukemia, ATCC TIB-152). Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-human TopBP1 antibody.

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#### Immunofluorescence

**Image 2.** Immunofluorescence staining of HeLa cells (Human cervical epitheloid carcinoma, ATCC CCL-2.2).

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