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# Datasheet for ABIN6259030 anti-APITD1 antibody (C-Term)

2 Images



#### Overview

Quantity:	100 µL
Target:	APITD1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This APITD1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

# Product Details

Immunogen:	A synthesized peptide derived from human CENPS, corresponding to a region within C-terminal amino acids.
Isotype:	lgG
Specificity:	CENPS Antibody detects endogenous levels of total CENPS.
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).

# Target Details

Target:	APITD1
Alternative Name:	CENPS (APITD1 Products)

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Target Details	
Background:	Description: DNA-binding component of the Fanconi anemia (FA) core complex. Required for
	the normal activation of the FA pathway, leading to monoubiquitination of the FANCI-FANCD2
	complex in response to DNA damage, cellular resistance to DNA cross-linking drugs, and
	prevention of chromosomal breakage (PubMed:20347428, PubMed:20347429). In complex
	with CENPX (MHF heterodimer), crucial cofactor for FANCM in both binding and ATP-
	dependent remodeling of DNA. Stabilizes FANCM (PubMed:20347428, PubMed:20347429). In
	complex with CENPX and FANCM (but not other FANC proteins), rapidly recruited to blocked
	forks and promotes gene conversion at blocked replication forks (PubMed:20347428). In
	complex with CENPT, CENPW and CENPX (CENP-T-W-S-X heterotetramer), involved in the
	formation of a functional kinetochore outer plate, which is essential for kinetochore-
	microtubule attachment and faithful mitotic progression (PubMed:19620631). As a component
	of MHF and CENP-T-W-S-X complexes, binds DNA and bends it to form a nucleosome-like
	structure (PubMed:20347428, PubMed:22304917). DNA-binding function is fulfilled in the
	presence of CENPX, with the following preference for DNA substates: Holliday junction >
	double-stranded > splay arm > single-stranded. Does not bind DNA on its own
	(PubMed:20347428, PubMed:20347429).
	Gene: CENPS
Molecular Weight:	16 kDa
Gene ID:	100526739, 378708

# Application Details

Q8N2Z9

Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

# Handling

UniProt:

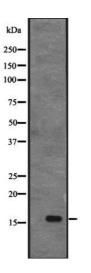
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

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## Handling

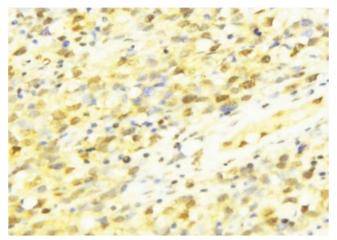
	should be handled by trained staff only.
Storage:	-20 °C
Expiry Date:	12 months

### Images



#### Western Blotting

**Image 1.** Western blot analysis of CENPS expression in MHF1 transfected 293T cell lysate; The lane on the left is treated with the antigen-specific peptide.



#### Immunohistochemistry

**Image 2.** ABIN6273465 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

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