

**ZW10 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16473a**

### Specification

#### ZW10 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	<a href="#">O43264</a>
Other Accession	<a href="#">NP_004715.1</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	88829
Antigen Region	59-88

#### ZW10 Antibody (N-term) - Additional Information

##### Gene ID 9183

##### Other Names

Centromere/kinetochore protein zw10 homolog, ZW10

##### Target/Specificity

This ZW10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 59-88 amino acids from the N-terminal region of human ZW10.

##### Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

##### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

##### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

##### Precautions

ZW10 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### ZW10 Antibody (N-term) - Protein Information

##### Name ZW10

**Function** Essential component of the mitotic checkpoint, which prevents cells from prematurely

exiting mitosis. Required for the assembly of the dynein-dynactin and MAD1-MAD2 complexes onto kinetochores. Its function related to the spindle assembly machinery is proposed to depend on its association in the mitotic RZZ complex (PubMed:[11590237](#), PubMed:[15485811](#), PubMed:[15824131](#)). Involved in regulation of membrane traffic between the Golgi and the endoplasmic reticulum (ER); the function is proposed to depend on its association in the interphase NRZ complex which is believed to play a role in SNARE assembly at the ER (PubMed:[15029241](#)).

#### Cellular Location

Cytoplasm. Endoplasmic reticulum membrane; Peripheral membrane protein. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle. Lipid droplet. Note=Dynamic pattern of localization during the cell cycle. In most cells at interphase, present diffusely in the cytoplasm (PubMed:15029241). In prometaphase, associated with the kinetochore. At metaphase, detected both at the kinetochores and, most prominently, at the spindle, particularly at the spindle poles. In very early anaphase, detected on segregating kinetochores. In late anaphase and telophase, accumulates at the spindle midzone (PubMed:11590237).

#### Tissue Location

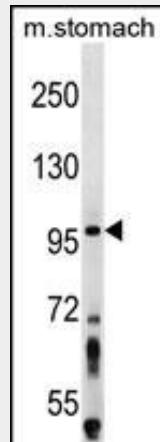
Widely expressed.

#### ZW10 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### ZW10 Antibody (N-term) - Images



ZW10 Antibody (N-term) (Cat. #AP16473a) western blot analysis in mouse stomach tissue lysates (35ug/lane). This demonstrates the ZW10 antibody detected the ZW10 protein (arrow).

#### ZW10 Antibody (N-term) - Background

This gene encodes a protein that is one of many involved in mechanisms to ensure proper chromosome segregation during cell division. The encoded protein binds to centromeres during the prophase, metaphase, and early anaphase cell division stages and to kinetochore microtubules during metaphase.

#### **ZW10 Antibody (N-term) - References**

Chan, Y.W., et al. J. Cell Biol. 185(5):859-874(2009)  
Aoki, T., et al. Mol. Biol. Cell 20(11):2639-2649(2009)  
Inoue, M., et al. Genes Cells 13(8):905-914(2008)  
Famulski, J.K., et al. J. Cell Biol. 180(3):507-520(2008)  
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