

### ZW10 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP16473a

### **Specification**

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

WB,E Application **Primary Accession** 043264 Other Accession NP 004715.1 Human, Mouse Reactivity 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

### **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).

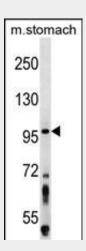
**Tissue Location** Widely expressed.

# 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 Cytomety
- 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) Famulski, J.K., et al. Curr. Biol. 17(24):2143-2149(2007)