

ZW10 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP16473a**Specification**

ZW10 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O43264](#)**ZW10 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 9183**Other Names**

Centromere/kinetochore protein zw10 homolog, ZW10

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ZW10 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ZW10 Antibody (N-term) Blocking Peptide - Images**ZW10 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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)