

# ZW10 peptide Antibody FITC Conjugated

Catalog No: #C03811F

Package Size: #C03811F 100ul

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## Description

Product Name	ZW10 peptide Antibody FITC Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	IF(IHC-P)
Species Reactivity	Hu Ms Rt
Immunogen Description	KLH conjugated synthetic peptide derived from mouse ZW10
Conjugates	FITC
Target Name	ZW10 peptide
Other Names	Centromere kinetochore protein zw10; Centromere kinetochore protein zw10 homolog; HZW 10; HZW10; Kinetochore associated homolog; KNTC1AP; MGC149821; Zeste White 10; Zeste white 10 homolog; ZW 10; ZW 10; centromere kinetochore protein; ZW 10 kinetochore associated homolog; ZW10 Drosophila homolog cen
Accession No.	NCBI Gene ID9183
Concentration	1mg ml
Formulation	10mM Tris Buffered Saline containing 1% BSA, 50% glycerol and 0.09% sodium azide.
Storage	Store at 4C for 12 months.

## Application Details

Immunofluorescence: 1:50-200

## Background

The mitotic checkpoint ensures that chromosomes are divided equally between daughter cells and is a primary mechanism preventing the chromosome instability often seen in aneuploid human tumors. 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. It is part of the MIS12 complex, which may be fundamental for kinetochore formation and proper chromosome segregation during mitosis. In mitotic human cells ZW10 resides in a complex with Rod and Zwilch, whereas another ZW10 partner, Zwint-1, is part of a separate complex of structural kinetochore components including Mis12 and Ndc80-Hec1. Zwint-1 is critical for recruiting ZW10 to unattached kinetochores. Depletion from human cells demonstrates that the ZW10 complex is essential for stable binding of a Mad1-Mad2 complex to unattached kinetochores. Thus, ZW10 functions as a linker between the core structural elements of the outer kinetochore and components that catalyze generation of the mitotic checkpoint-derived "stop anaphase" inhibitor.

**Note:** This product is for in vitro research use only and is not intended for use in humans or animals.