

Recombinant Anti-ZWINT Rabbit mAb

Catalog # AP95406

Product Information

Application	WB, IHC, FC
Primary Accession	O95229
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	31293

Additional Information

Gene ID	11130
Other Names	ZW10 interactor; ZW10-interacting protein 1; Zwint-1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human ZWINT protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

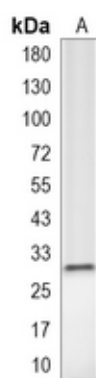
Name	ZWINT
Function	Acts as a component of the outer kinetochore KNL1 complex that serves as a docking point for spindle assembly checkpoint components and mediates microtubule-kinetochore interactions (PubMed: 15094189 , PubMed: 15485811 , PubMed: 15824131 , PubMed: 16732327 , PubMed: 24530301 , PubMed: 27881301 , PubMed: 38459127 , PubMed: 38459128). Kinetochores, consisting of a centromere-associated inner segment and a microtubule-contacting outer segment, play a crucial role in chromosome segregation by mediating the physical connection between centromeric DNA and spindle microtubules (PubMed: 15094189 , PubMed: 15485811 , PubMed: 16732327). The outer kinetochore is made up of the ten-subunit KMN network, comprising the MIS12, NDC80 and KNL1 complexes, and auxiliary microtubule-associated components; together they connect the outer kinetochore with the inner kinetochore, bind microtubules, and mediate interactions with mitotic checkpoint proteins that delay anaphase until chromosomes are bioriented on the spindle (PubMed: 15094189 , PubMed: 15485811 , PubMed: 15824131 , PubMed: 16732327 , PubMed: 24530301 , PubMed: 38459127 , PubMed: 38459128). Targets the RZZ

complex to the kinetochore at prometaphase (PubMed:[15485811](#)). Recruits MAD2L1 to the kinetochore, but is not required for BUB1B localization (By similarity). In addition to orienting mitotic chromosomes, it is also essential for alignment of homologous chromosomes during meiotic metaphase I (By similarity). In meiosis I, required to activate the spindle assembly checkpoint at unattached kinetochores to correct erroneous kinetochore-microtubule attachments (PubMed:[15485811](#)).

Cellular Location

Nucleus. Chromosome, centromere, kinetochore Note=Localizes to kinetochores from late prophase to anaphase (PubMed:15502821, PubMed:27881301). Localizes to kinetochores both during mitosis and meiosis (By similarity) {ECO:0000250|UniProtKB:Q9CQU5, ECO:0000269|PubMed:15502821, ECO:0000269|PubMed:27881301}

Images



Western blot analysis of ZWINT expression in HeLa (A) whole cell lysates. (Predicted band size: 30 kD; Observed band size: 30 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.