

Recombinant Human ZWINT, His-tagged

Cat. No. ZWINT-153H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ZWINT, 1-230aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-230aa
Description	ZW10 interactor isoform b, also known as ZWINT, is clearly involved in kinetochore function. Localized to the cytoplasm during interphase and to kinetochores from late prophase to anaphase, ZWINT interacts with ZW10 (Zeste White 10) and functions to regulate the association between ZW10 and kinetochores. Defects in the gene encoding ZWINT are associated with the pathogenesis of Roberts's syndrome, an autosomal recessive disorder characterized by growth retardation due to premature chromosome separation. Recombinant human ZWINT protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
Molecular Mass	27.9 kDa (253aa) confirmed by MALDI-TOF (Molecular size on SDS-PAGE will appear higher)
AA Sequence	MGSSHHHHHH SSSLVPRGSH MGSMEAAETE AEAAALEVLA EVAGILEPVG

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LQEEAELPAK ILVEFVVDSQ KKDKLLCSQL QVADFLQNIL AQEDTAKGLD
 PLASEDTSRQ KAIAAKEQWK ELKATYREHV EAIKIGLTKA LTQMEEAQRK
 RTQLREAFEQ LQAKKQMAME KRRAVQNQWQ LQQEKHLQHL AEVSAEGKLL
 FPEAEAEAEN LPDDKPQQPT RPQEQSTGDT MGRDPGVVSFK AVGLQPAGDV NLP

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [ZWINT ZW10 interactor \[Homo sapiens \]](#)

Official Symbol ZWINT

Synonyms ZWINT; ZW10 interactor; KNTC2AP; zwint-1; ZW10-interacting protein 1; human ZW10 interacting protein-1; ZWINT1; HZwint-1; MGC117174;

Gene ID [11130](#)

mRNA Refseq [NM_001005413](#)

Protein Refseq [NP_001005413](#)

MIM [609177](#)

UniProt ID [O95229](#)

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**Chromosome
Location**

10q21-q22

Pathway

Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; DNA Replication, organism-specific biosystem; M Phase, organism-specific biosystem; Mitotic M-M/G1 phases, organism-specific biosystem; Mitotic Prometaphase, organism-specific biosystem;

Function

protein N-terminus binding; protein binding;

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