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 SSGLVPRGSH 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 MGRDPGVSFK 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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