

ZWINT (h2): 293 Lysate: sc-112895

BACKGROUND

ZWINT (ZW10 interactor), also known as KNTC2AP or HZwint-1, is a 277 amino acid protein that is 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. Additionally, ZWINT is part of a kinetochore complex composed of proteins such as MIS12 (MIND kinetochore complex component) and PMF-1 (polyamine-modulated factor 1) that work in concert to ensure proper kinetochore formation and spindle checkpoint activity. Defects in the gene encoding ZWINT are associated with the pathogenesis of Roberts syndrome, an autosomal recessive disorder characterized by growth retardation due to premature chromosome separation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZWINT (human) mapping to 10q21.1.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

ZWINT (h2): 293 Lysate represents a lysate of human ZWINT transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

ZWINT (h2): 293 Lysate is suitable as a Western Blotting positive control for human reactive ZWINT antibodies. Recommended use: 10-20 µl per lane.

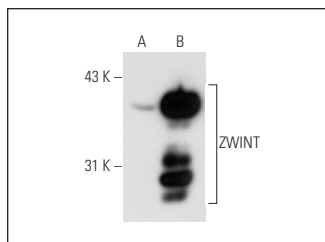
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

ZWINT (G-12): sc-166730 is recommended as a positive control antibody for Western Blot analysis of enhanced human ZWINT expression in ZWINT transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



ZWINT (G-12): sc-166730. Western blot analysis of ZWINT expression in non-transfected: sc-110760 (A) and human ZWINT transfected: sc-112895 (B) 293 whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.