INCENP (B-4): sc-376514

BACKGROUND

A replicated chromosome includes two kinetochores that control chromosome segregation during mitosis. The centromere proteins CENP-A, CENP-B, CENP-C, CENP-E, CENP-F (also designated mitosin), CENP-H and INCENP are kinetochore proteins that are involved in mitotic events. The centromere proteins are expressed at different levels throughout the cell cycle and are involved in the formation of the centromere and the organization and function of the kinetochore. INCENP, which is also designated inner centromere protein, is a chromosomal passenger protein that is crucial for chromosome segregation. During mitosis it is also required for cytokinesis onset. This protein, which can form a homodimer or a heterodimer, binds directly to microtubules and interacts with Aurora, AuroraC, CBX3 and β Tubulin. This nuclear protein localizes to the mitotic spindle, metaphase chromosomes and during anaphase, to the equatorial cortex.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: INCENP (human) mapping to 11q12.3; Incenp (mouse) mapping to 19 A.

SOURCE

INCENP (B-4) is a mouse monoclonal antibody raised against amino acids 766-918 mapping at the C-terminus of INCENP of human origin.

PRODUCT

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

INCENP (B-4) is available conjugated to agarose (sc-376514 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376514 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; with UltraCruz® Mounting Medium: sc-359850.

INCENP expression in Jurkat whole cell lysate.

APPLICATIONS

INCENP (B-4) is recommended for detection of INCENP of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for INCENP siRNA (h): sc-60848, INCENP siRNA (m): sc-60849, INCENP shRNA Plasmid (h): sc-60848-SH, INCENP shRNA Plasmid (m): sc-60849-SH, INCENP shRNA (h) Lentiviral Particles: sc-60848-V and INCENP shRNA (m) Lentiviral Particles: sc-60849-V.

Molecular Weight of INCENP: 120 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG 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.
2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA

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SELECT PRODUCT CITATIONS


STORAGE

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

Data from Santa Cruz Biotechnology, Inc. www.scbt.com