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 also is 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 AURKB, AURKC, 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.

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

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).

Recommended 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.

Positive Controls: mouse prostate extract: sc-36429, TK-1 whole cell lysate: sc-364798 or Jurkat whole cell lysate: sc-2204.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:

DATA

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.