

Centriolin (H-300): sc-135020

BACKGROUND

Cytokinesis occurs during the late stages of mitosis and describes the process by which the cytoplasm of one cell is divided to create two subsequent daughter cells. Centriolin, also known as CEP110, is a coiled-coil centrosomal protein that is required for centrosome maturation and correct centrosome function. During abscission, the last step in cytokinesis, Centriolin both coordinates and grounds vesicle-fusion and vesicle-exocyst complexes to the midbody of the daughter cells. Acting as an anchor for the protein complexes needed to complete separation of the two cells, Centriolin initiates and controls vesicle-mediated cell cleavage. Through its ability to signal initiation of the last step of vertebrate cytokinesis, Centriolin regulates cell proliferation and contributes to proper entry into the S phase of mitosis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CNTRL (human) mapping to 9q33.2; Cep110 (mouse) mapping to 2 B.

SOURCE

Centriolin (H-300) is a rabbit polyclonal antibody raised against amino acids 2026-2325 mapping at the C-terminus of Centriolin of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Centriolin (H-300) is recommended for detection of Centriolin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

Centriolin (H-300) is also recommended for detection of Centriolin in additional species, including equine and porcine.

Suitable for use as control antibody for Centriolin siRNA (h): sc-62094, Centriolin siRNA (m): sc-62095, Centriolin shRNA Plasmid (h): sc-62094-SH, Centriolin shRNA Plasmid (m): sc-62095-SH, Centriolin shRNA (h) Lentiviral Particles: sc-62094-V and Centriolin shRNA (m) Lentiviral Particles: sc-62095-V.

Molecular Weight of Centriolin: 110 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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



MONOS
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Try **Centriolin (C-9): sc-365521**, our highly recommended monoclonal alternative to Centriolin (H-300).