SANTA CRUZ BIOTECHNOLOGY, INC.

CEP55 (M-300): sc-134623



BACKGROUND

CEP55 (centrosomal protein of 55 kDa), also known as URCC6 (upregulated in colon cancer 6), is a 464 amino acid protein that localizes to the centrosome during interphase and may be found throughout the cell during mitosis. Widely expressed with highest expression in testis and lower expression in thymus, bone marrow, placenta, fetal heart, digestive tract and several carcinomas, CEP55 exists as a homodimer that interacts with centrosome components and is involved in mitotic exit and cytokinesis. Human CEP55 undergoes several phosphorylation events throughout the cell cycle, most of which are necessary for proper CEP55 function. Mutations or defects in the gene encoding CEP55 result in a failure to exit mitosis and may be associated with tumor progression. Two isoforms of CEP55 are expressed due to alternative splicing events.

REFERENCES

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- Martinez-Garay, I., Rustom, A., Gerdes, H.H. and Kutsche, K. 2006. The novel centrosomal associated protein CEP55 is present in the spindle midzone and the midbody. Genomics 87: 243-253.
- Zhao, W.M., Seki, A. and Fang, G. 2006. CEP55, a microtubule-bundling protein, associates with centralspindlin to control the midbody integrity and cell abscission during cytokinesis. Mol. Biol. Cell 17: 3881-3896.
- Carlton, J.G. and Martin-Serrano, J. 2007. Parallels between cytokinesis and retroviral budding: a role for the ESCRT machinery. Science 316: 1908-1912.

CHROMOSOMAL LOCATION

Genetic locus: CEP55 (human) mapping to 10q23.33; Cep55 (mouse) mapping to 19 C2.

SOURCE

CEP55 (M-300) is a rabbit polyclonal antibody raised against amino acids 163-462 mapping at the C-terminus of CEP55 of mouse origin.

PRODUCT

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

STORAGE

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

APPLICATIONS

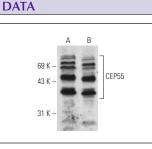
CEP55 (M-300) is recommended for detection of CEP55 of mouse, rat and, to a lesser extent, human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CEP55 siRNA (h): sc-90601, CEP55 siRNA (m): sc-142284, CEP55 shRNA Plasmid (h): sc-90601-SH, CEP55 shRNA Plasmid (m): sc-142284-SH, CEP55 shRNA (h) Lentiviral Particles: sc-90601-V and CEP55 shRNA (m) Lentiviral Particles: sc-142284-V.

Molecular Weight of CEP55: 55 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.



CEP55 (M-300): sc-134623. Western blot analysis of CEP55 expression in HeLa (**A**) and ES-2 (**B**) whole cell lysates.

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 Satisfation Guaranteed

Try CEP55 (C-4): sc-377018 or CEP55 (D-12): sc-377044, our highly recommended monoclonal alternatives to CEP55 (M-300).