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Sororin (h): 293T Lysate: sc-159962

BACKGROUND

Sororin, also designated cell division cycle-associated protein 5 (CDCA5) or p35, functions as a regulator of sister chromatid cohesion during mitosis. It interacts with the APC/C complex and is found in a complex consisting of cohesion components SCC-112, MC1L1, SMC3L1, RAD21 and APRIN. The deduced human and mouse Sororin proteins consist of 252 and 264 amino acid residues respectively, and both contain a KEN box for APC-dependent ubiquitination. Research demonstrates a punctated nuclear distribution of Sororin during interphase and a diffuse distribution throughout the cell during mitosis. There is no apparent concentration of Sororin on chromatin in mitotic cells and Sororin levels decrease in synchronized HeLa cells during interphase. The Sororin gene maps to chromosome 11q13.1.

REFERENCES

1. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 609374. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
2. Rankin, S. 2005. Sororin, the cell cycle and sister chromatid cohesion. *Cell Cycle* 4: 1039-1042.
3. Rankin, S., et al. 2005. Sororin, a substrate of the anaphase-promoting complex, is required for sister chromatid cohesion in vertebrates. *Mol. Cell* 18: 185-200.
4. Hisanaga, S. 2005. Phosphorylation of FTDP-17 mutant Tau by cyclin-dependent kinase 5 complexed with p35, p25 or p39. *J. Biol. Chem.* 280: 31522-31529.
5. Kim, E., et al. 2006. Cdk5 is a novel regulatory protein in PPAR γ ligand-induced antiproliferation. *Int. J. Oncol.* 28: 191-194.
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CHROMOSOMAL LOCATION

Genetic locus: CDCA5 (human) mapping to 11q13.1.

PRODUCT

Sororin (h): 293T Lysate represents a lysate of human Sororin transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

Sororin (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Sororin antibodies. Recommended use: 10-20 μ l per lane.

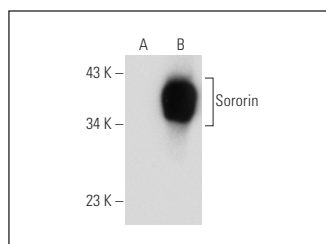
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Sororin (B-9): sc-365319 is recommended as a positive control antibody for Western Blot analysis of enhanced human Sororin expression in Sororin transfected 293T 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-IgG κ BP-HRP: sc-516102 or m-IgG κ 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



Sororin (B-9): sc-365319. Western blot analysis of Sororin expression in non-transfected: sc-117752 (A) and human Sororin transfected: sc-159962 (B) 293T 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.

RESEARCH USE

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

PROTOCOLS

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