



Nopp140 (h): 293T Lysate: sc-175481

BACKGROUND

Nopp140, previously named p130, is a nucleolar phosphoprotein that has been shown to exist in multiple forms with different sizes. Nopp140 functions both as a chaperone for import and/or export from the nucleolus and as a transcription factor. Nopp140 was originally identified from rat liver as an NLS (nuclear localization signal)-binding protein and has been further characterized as an RNAP (RNA polymerase)-interacting protein. Nopp140 also associates with the general transcription factor TFIIB, and the protein kinase, casein kinase II (CKII). CKII heavily phosphorylates Nopp140 to mediate binding of Nopp140 to NLS. Nopp140 co-localizes with another nucleolar protein, NAP57, in the nucleolus and coiled bodies, and is thought to be involved in activities carried out within the nucleolus.

REFERENCES

1. Poli, V., et al. 1990. IL-6DBP, a nuclear protein involved in interleukin-6 signal transduction, defines a new family of leucine zipper proteins related to C/EBP. *Cell* 63: 643-653.
2. Meier, U.T., et al. 1992. Nopp140 shuttles on tracks between nucleolus and cytoplasm. *Cell* 70: 127-138.
3. Pai, C.Y., et al. 1995. Cell-cycle-dependent alterations of a highly phosphorylated nucleolar protein p130 are associated with nucleogenesis. *J. Cell Sci.* 108: 1911-1920.
4. Chen, H.K. et al. 1997. The nucleolar phosphoprotein p130 is a GTPase/ATPase with intrinsic property to form large complexes triggered by F- and Mg^{2+} . *Biochem. Biophys. Res. Commun.* 230: 370-375.
5. Li, D., et al. 1997. Specific interaction between casein kinase II and the nucleolar protein Nopp140. *J. Biol. Chem.* 272: 3773-3779.
6. Miao, L.H., et al. 1997. Identification and characterization of a nucleolar phosphoprotein, Nopp140, as a transcription factor. *Mol. Cell. Biol.* 17: 230-239.
7. Chen, H.K., et al. 1999. Human Nopp140, which interacts with RNA polymerase I: implications for rRNA gene transcription and nucleolar structural organization. *Mol. Cell. Biol.* 19: 8536-8546.

CHROMOSOMAL LOCATION

Genetic locus: NOLC1 (human) mapping to 10q24.32.

PRODUCT

Nopp140 (h): 293T Lysate represents a lysate of human Nopp140 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

PROTOCOLS

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

APPLICATIONS

Nopp140 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Nopp140 antibodies. Recommended use: 10-20 µl per lane.

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

RESEARCH USE

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