# Nopp140 (3B4): sc-101101



The Power to Question

#### **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**

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- 4. Chen, H.K. et al. 1997. The nucleolar phosphoprotein p130 is a GTPase/ ATPase with intrinsic property to form large complexes triggered by Fand Mg<sup>2+</sup>. Biochem. Biophys. Res. Commun. 230: 370-375.
- Li, D., et al. 1997. Specific interaction between casein kinase II and the nucleolar protein Nopp140. J. Biol. Chem. 272: 3773-3779.
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## **CHROMOSOMAL LOCATION**

Genetic locus: NOLC1 (human) mapping to 10q24.32; Nolc1 (mouse) mapping to 19 C3.

## **SOURCE**

Nopp140 (3B4) is a mouse monoclonal antibody raised against recombinant Nopp140 of human origin.

## **PRODUCT**

Each vial contains 100  $\mu g\ lgG_3$  kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

# **STORAGE**

Store at  $4^{\circ}$  C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **APPLICATIONS**

Nopp140 (3B4) is recommended for detection of Nopp140 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffinembedded sections) (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 Nopp140 siRNA (h): sc-38127, Nopp140 siRNA (m): sc-38128, Nopp140 shRNA Plasmid (h): sc-38127-SH, Nopp140 shRNA Plasmid (m): sc-38128-SH, Nopp140 shRNA (h) Lentiviral Particles: sc-38127-V and Nopp140 shRNA (m) Lentiviral Particles: sc-38128-V.

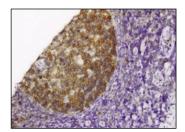
Molecular Weight of Nopp140: 140 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

## **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 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 m-lgG $\kappa$  BP-FITC: sc-516140 or m-lgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-lgG $\kappa$  BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

## **DATA**



Nopp140 (3B4): sc-101101. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human tonsil tissue showing nuclear and cytoplasmic localization.

# **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.