

# Product Datasheet

## NCAPH Antibody - BSA Free

### NBP1-88345

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



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Updated 12/2/2025 v.20.1

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**NBP1-88345**

NCAPH Antibody - BSA Free

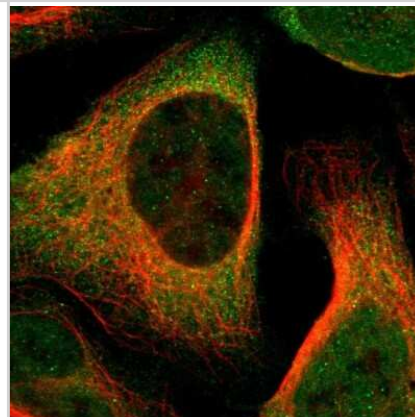
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Target Molecular Weight	82 kDa

Product Description	
Description	Novus Biologicals Rabbit NCAPH Antibody - BSA Free (NBP1-88345) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-NCAPH Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	23397
Gene Symbol	NCAPH
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (81%), Rat (84%).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: KFTNTQITEHYSTCIKLSTENKITTKNAFGLHLIDFMSEILKQKDTEPTNFKVAAG TLDASTKIYAVRVDVAVHADVYRVLGGLGKDAPSLEEVEGHVADGSATEMGTTK KAVKPKKKHLHRTIEQNINNLNVSEADRKCEI

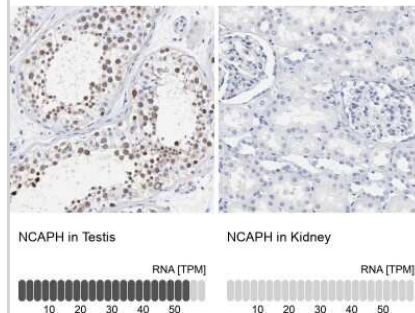
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 0.04 - 0.4 ug/ml, Simple Western 1:20, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50-1:200, Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. In  In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in RT-4 and U-251MG, separated by Size, antibody dilution of 1:20, apparent MW was 127 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

## Images

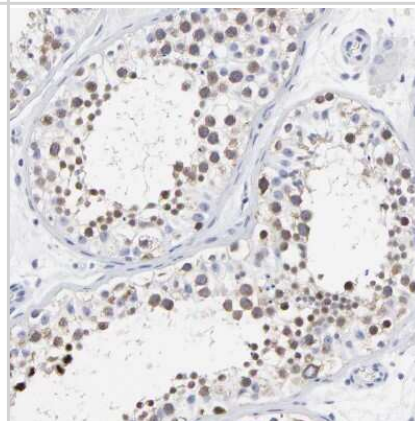
Immunocytochemistry/Immunofluorescence: NCAPH Antibody [NBP1-88345] - Staining of human cell line U-2 OS shows localization to nucleus and cytosol. Antibody staining is shown in green.



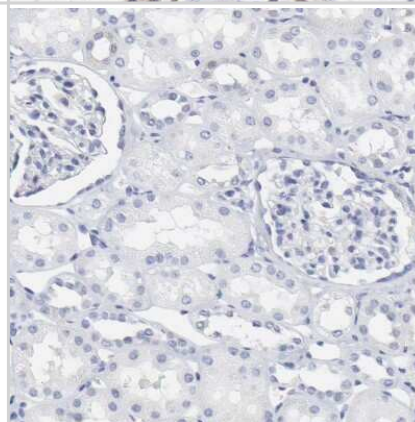
Immunohistochemistry-Paraffin: NCAPH Antibody [NBP1-88345] - Staining in human testis and kidney tissues . Corresponding NCAPH RNA-seq data are presented for the same tissues.



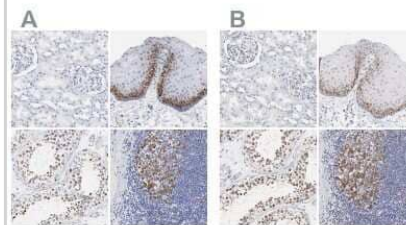
Immunohistochemistry-Paraffin: NCAPH Antibody [NBP1-88345] - Staining of human testis shows positivity in cells in seminiferous ducts.



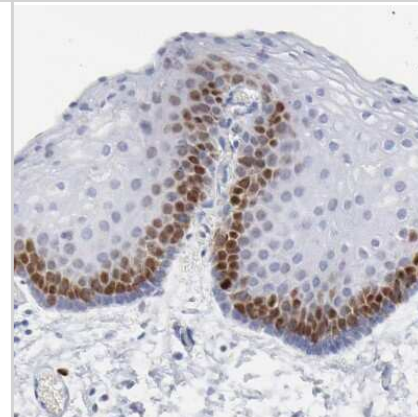
Immunohistochemistry-Paraffin: NCAPH Antibody [NBP1-88345] - Staining of human kidney shows no positivity as expected.



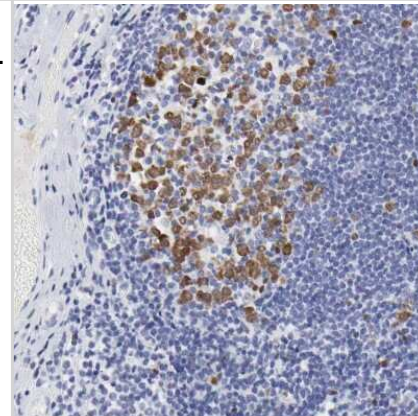
Immunohistochemistry-Paraffin: NCAPH Antibody [NBP1-88345] - Staining of human kidney, skin, testis and tonsil using Anti-NCAPH antibody NBP1-88345 (A) shows similar protein distribution across tissues to independent antibody NBP1-88346 (B).



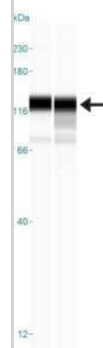
Immunohistochemistry-Paraffin: NCAPH Antibody [NBP1-88345] - Staining of human skin shows nuclear positivity in epidermal cells.



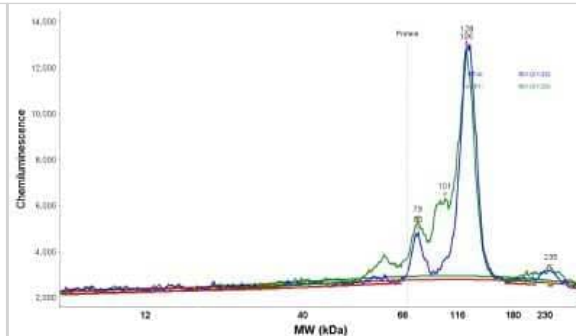
Immunohistochemistry-Paraffin: NCAPH Antibody [NBP1-88345] - Staining of human tonsil shows nuclear positivity in germinal center cells.



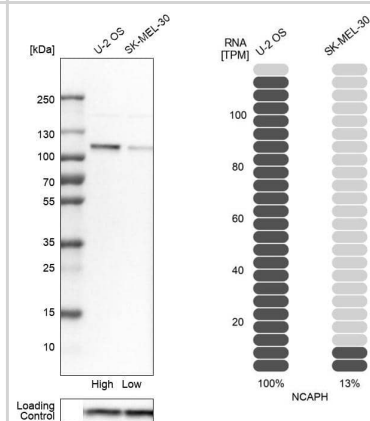
Simple Western: NCAPH Antibody [NBP1-88345] - Simple Western lane view shows a specific band for NCAPH in 0.2 mg/ml of RT-4 (Left) and U-251MG (Right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



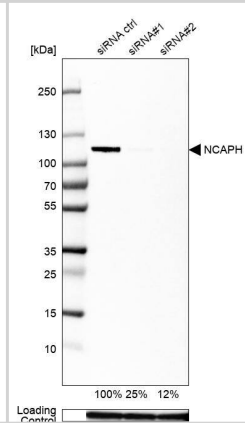
Simple Western: NCAPH Antibody [NBP1-88345] - Electropherogram image(s) of corresponding Simple Western lane view. NCAPH antibody was used at 1:20 dilution on RT-4 and U-251MG lysate(s).



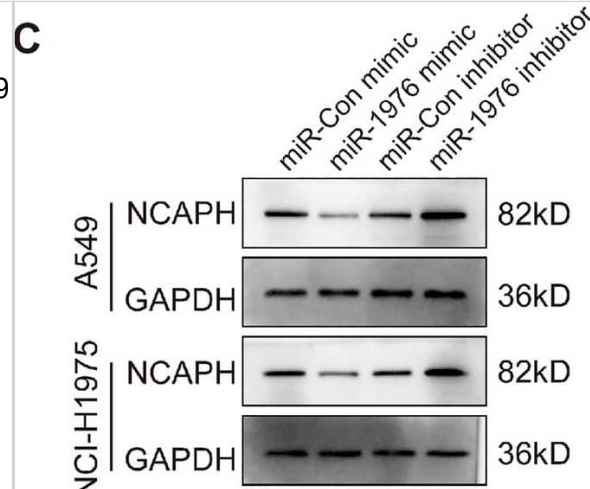
Analysis in human cell lines U2OS and SK-MEL-30 using Anti-NCAPH antibody. Corresponding NCAPH RNA-seq data are presented for the same cell lines. Loading control: Anti-COX4I1.



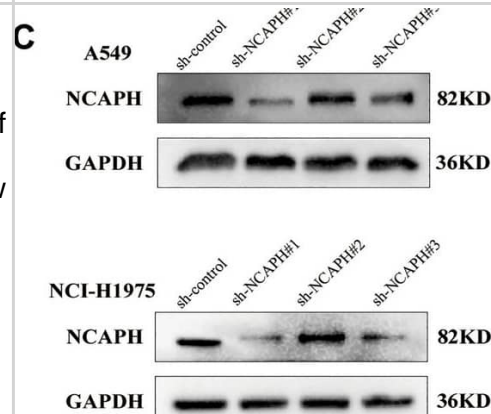
Analysis in U2OS cells transfected with control siRNA, target specific siRNA probe #1 and #2, using Anti-NCAPH antibody. Remaining relative intensity is presented. Loading control: Anti-GAPDH.



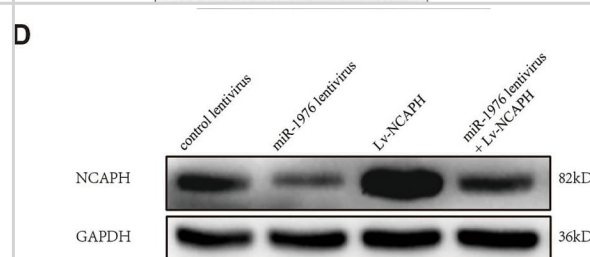
MiR-1976 targets NCAPH 3'-UTR: 1627 bp-1633 bp. A549 and NCI-H1975 cells were transfected with corresponding mimics, respectively and real-time PCR was used to detect the NCAPH mRNA level (A). A549 and NCI-H1975 cells were transfected with corresponding inhibitors, respectively and real-time PCR was used to detect the NCAPH mRNA level (B). Western blot was used to analyze NCAPH protein levels in A549 and NCI-H1975 cells (C, D). A schematic diagram showed the three predicted potential binding sites of miR-1976 at the 3' -UTR of NCAPH (E). The luciferase reporter vector containing predicted three binding sites were cloned into pGL3-promoter, namely pGL3-T1, pGL3-T2, and pGL3-T3. The three vectors were co-transfected with miR-1976 mimic respectively into A549 cells, and luciferase signals were detected by luciferase assay (F). The pGL3-T2 was co-transfected with the miR-1976 mimic into A549 cells. Luciferase signals were detected by luciferase assay (G). The pGL3-T2 was co-transfected respectively with the miR-1976 inhibitor into A549 cells. Luciferase signals were detected by luciferase assay (H). The pGL3-T2 was co-transfected with the miR-1976 mimic into A549 cells. The pGL3-T2 mut was co-transfected with the miR-1976 mimic into A549 cells. Luciferase signal was detected by luciferase method (I). \*  $P < 0.05$ , \*\*  $P < 0.01$ , \*\*\* $P < 0.001$ . Image collected and cropped by CiteAb from the following open publication (<https://www.nature.com/articles/s41598-024-61261-6>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



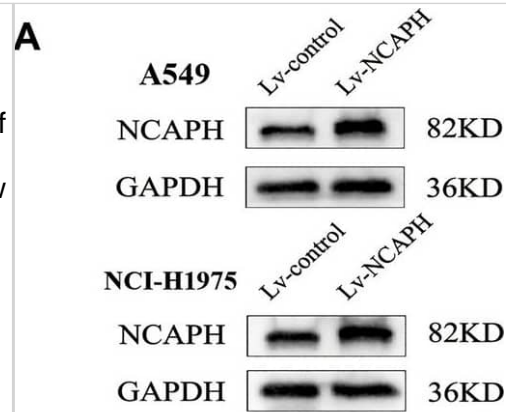
NCAPH promotes proliferation & migration and inhibits apoptosis of LUAD cells. NCAPH overexpression/knockdown lentivirus was used to treat A549 and NCI-H1975 cells. NCAPH proteins were detected by western blot assay (A, C) and quantitative analysis (B, D). The viability of LUAD cells was detected by CCK8 assay (E–H). Transwell assays were performed to detect cell migration (I, J). Apoptosis was measured by flow cytometry (K, L). \*  $P < 0.05$ , \*\*  $P < 0.01$ , \*\*\* $P < 0.001$ . Image collected and cropped by CiteAb from the following open publication (<https://www.nature.com/articles/s41598-024-61261-6>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



MiR-1976 suppresses tumor growth & metastasis in vivo by targeting NCAPH. A549 cells were infected with the corresponding lentivirus, respectively. About  $1 \times 10^7$  cells were implanted subcutaneously into nude mice (A), and the tumor volume (B) and weight (C) were observed after cell implantation. NCAPH protein level in xenograft tumor tissues was detected by Western blotting (D, E). In Fig. 7D, the experiments were repeated twice on one membrane (Supplementary information file 2), and Fig. 7D represented one experimental result. The expression of NCAPH, PCNA, and cleaved-caspase-3 in xenograft tumors was detected by IHC staining (F–I). PCNA is a marker of tumor proliferation. A549 cells infected with lentivirus were injected into the tail vein of nude mice (5 in each group) (J). The average number of tumor nodules in each group was calculated (K). HE staining was used to demonstrate tumor nodules (L). \*  $P < 0.05$ , \*\*  $P < 0.01$ , \*\*\* $P < 0.001$ . Image collected and cropped by CiteAb from the following open publication (<https://www.nature.com/articles/s41598-024-61261-6>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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## Publications

Eykelenboom J, Gierliński M, Yue Z et al. Nuclear exclusion of condensin I in prophase coordinates mitotic chromosome reorganization to ensure complete sister chromatid resolution. *Current biology* : CB 2025-03-13 [PMID: 40107266]

Peiluo Huang, Hongtao Zhao, Ruonan Sun, Chunyan Liu, Lei Wu, Yao Wang, Zhengwei Gan, Xiuzhen Yang, Juan Du MiR-1976/NCAPH/P65 axis inhibits the malignant phenotypes of lung adenocarcinoma *Scientific Reports* 2024-05-16 [PMID: 38755247]

Chu L, Liang Z, Mukhina M et al. The 3D Topography of Mitotic Chromosomes *Mol. Cell* 2020-07-31 [PMID: 32768407]

Davalos V, Suarez-Lopez L, Castano J et al. Human SMC2 Protein, a Core Subunit of Human Condensin Complex, Is a Novel Transcriptional Target of the WNT Signaling Pathway and a New Therapeutic Target. *J Biol Chem* 2012-12-21 [PMID: 23095742]



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General: novus@novusbio.com

### **Products Related to NBP1-88345**

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NBP1-88345PEP	NCAPH Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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