

# 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.

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#### Publications: 4

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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	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Target Molecular Weight	82 kDa

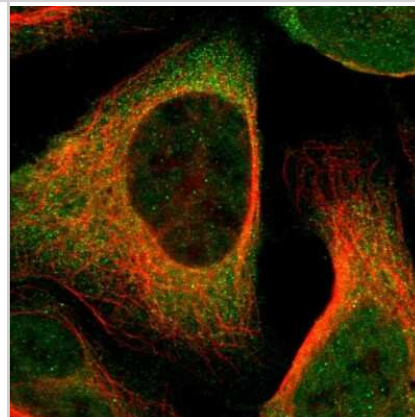
Product Description	
Description	Novus Biologicals Rabbit NCAPH Antibody - BSA Free (NBP1-88345) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-NCAPH Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
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 TLDASTKIYAVRVDVHADVYRVLGGLGKDAPSLEEVEGHVADGSATEMGTTK 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.

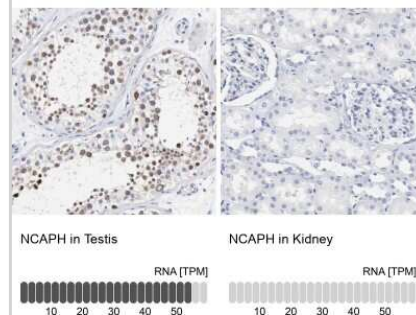


## Images

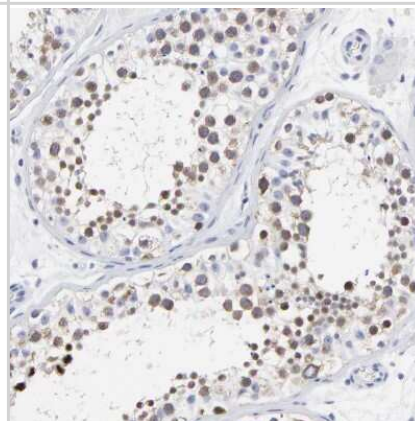
Immunocytochemistry/Immunofluorescence: NCAPH Antibody [NBP1-88345] - Staining of human cell line U-2 OS shows localization to nucleus and cytosol. Antibody staining is shown in green.



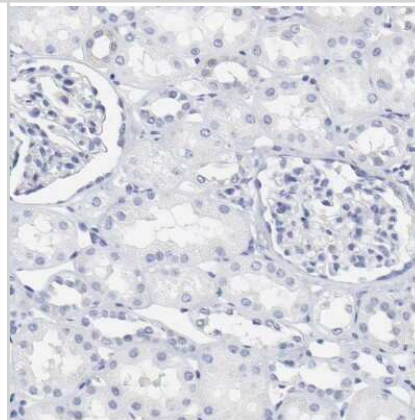
Immunohistochemistry-Paraffin: NCAPH Antibody [NBP1-88345] - Staining in human testis and kidney tissues . Corresponding NCAPH RNA-seq data are presented for the same tissues.



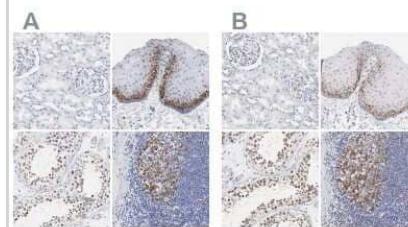
Immunohistochemistry-Paraffin: NCAPH Antibody [NBP1-88345] - Staining of human testis shows positivity in cells in seminiferous ducts.



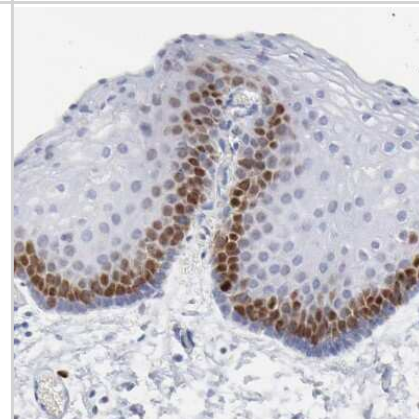
Immunohistochemistry-Paraffin: NCAPH Antibody [NBP1-88345] - Staining of human kidney shows no positivity as expected.



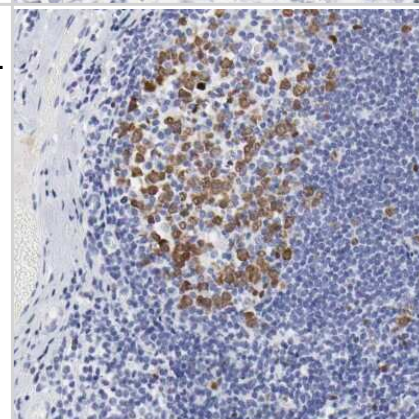
Immunohistochemistry-Paraffin: NCAPH Antibody [NBP1-88345] - Staining of human kidney, skin, testis and tonsil using Anti-NCAPH antibody NBP1-88345 (A) shows similar protein distribution across tissues to independent antibody NBP1-88346 (B).



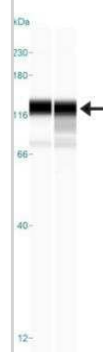
Immunohistochemistry-Paraffin: NCAPH Antibody [NBP1-88345] - Staining of human skin shows nuclear positivity in epidermal cells.



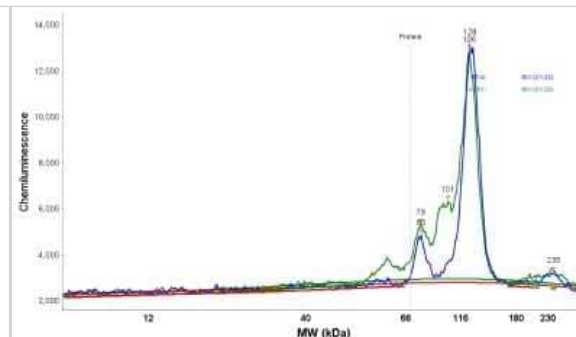
Immunohistochemistry-Paraffin: NCAPH Antibody [NBP1-88345] - Staining of human tonsil shows nuclear positivity in germinal center cells.



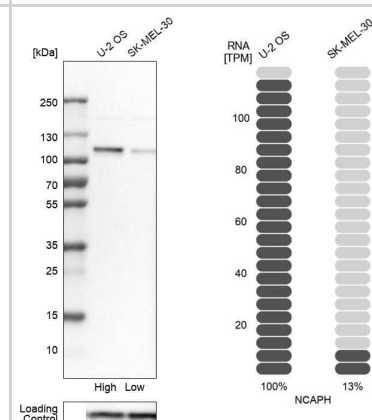
Simple Western: NCAPH Antibody [NBP1-88345] - Simple Western lane view shows a specific band for NCAPH in 0.2 mg/ml of RT-4 (Left) and U-251MG (Right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



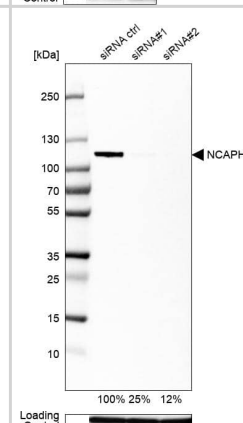
Simple Western: NCAPH Antibody [NBP1-88345] - Electropherogram image(s) of corresponding Simple Western lane view. NCAPH antibody was used at 1:20 dilution on RT-4 and U-251MG lysate(s).



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.



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

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NBP1-88345PEP	NCAPH Recombinant Protein Antigen
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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