

Product Datasheet

NUSAP1 Antibody - BSA Free

NBP2-13685

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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Reviews: 1

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NBP2-13685

NUSAP1 Antibody - BSA Free

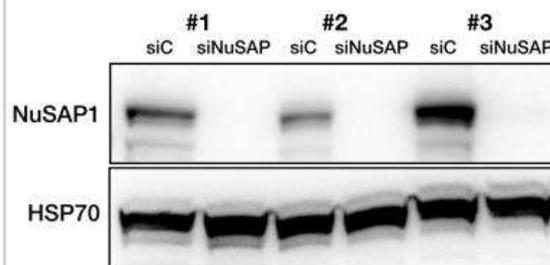
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Description	Novus Biologicals Rabbit NUSAP1 Antibody - BSA Free (NBP2-13685) is a polyclonal antibody validated for use in WB and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	51203
Gene Symbol	NUSAP1
Species	Human
Immunogen	This antibody was developed against a recombinant protein corresponding to the amino acids: KLLKALKGYIKHEARKGNENQDESQTSASSCDETEIQISNQEEAERQPLGHVTK TRRRCKTVRVDPDSQQNHSEIKISNPTEFQNHEKQESQDFRATAKVPSPPEH QEAENAVSSGNRDSKV

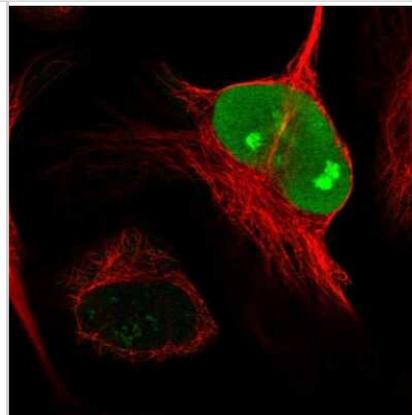
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot, Immunocytochemistry/ Immunofluorescence 0.25 - 2 ug/mL
Application Notes	ICC/IF Fixation/Permeabilization: PFA/Triton X-100. This NUSAP1 Antibody is validated for Western blot from a verified customer review.

Images

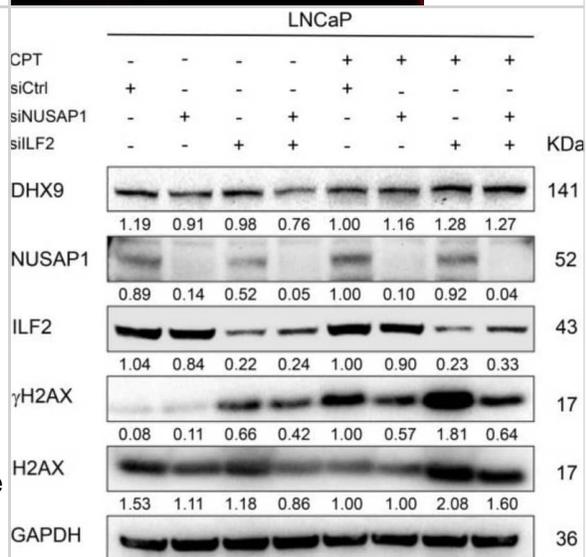
Western Blot: NUSAP1 Antibody [NBP2-13685] - Human cancer cell lines. NuSAP1 protein expression 72 hours after siRNA transfection. WB image submitted by a verified customer review.



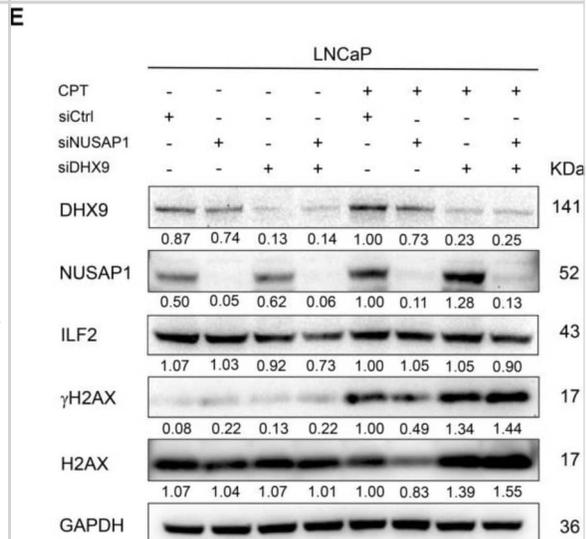
Immunocytochemistry/Immunofluorescence: NUSAP1 Antibody [NBP2-13685] - Staining of human cell line U-2 OS shows localization to nucleus & nucleoli fibrillar center. Antibody staining is shown in green.



ILF2 depletion promotes R-loop accumulation and DNA damage which are prevented by NUSAP1 depletion. (A) Dot-blot analysis of R-loop levels in LNCaP cells without and with 10 μ M Camptothecin (CPT) treatment for 60 min after 48 h post-transfection of siNUSAP1, siILF2 or both. siNUSAP1 alone reduced R-loop levels and siILF2 significantly increased R-loops. siNUSAP1 and siILF2 together completely corrected R-loop levels compared to siILF2 alone. Bottom panels anti-DS DNA antibody serves as loading control. (B) S9.6 signal from the dot-blots in the 100 ng nucleic acid samples normalized by dsDNA signal quantified using Image J ($n = 3$). (C) Immunofluorescent staining using anti- γ H2AX (red) to assess DNA damage without and with CPT treatment in LNCaP cells. siNUSAP1 decreases γ H2AX staining while siILF2 increases staining significantly. siNUSAP1 reduces γ H2AX levels to baseline in the presence of siILF2. DAPI (blue). Scale bar = 10 μ m (D) γ H2AX fluorescence intensities quantified by Image J ($n = 3$). (E) Representative Western blot analysis of NUSAP1, ILF2, DHX9, H2AX, and γ H2AX protein levels ($n = 3$). siCtrl, siControl; siN + sil, siNUSAP1 + siILF2. *, $p < 0.05$; **, $p < 0.01$; ****, $p < 0.0001$; NS, $p > 0.05$. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37047232>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



NUSAP1 depletion reduces CPT-induced R-loop accumulation and DNA damage and DHX9 depletion increases both. (A) Dot-blot analysis of R-loop levels in LNCaP cells without and with 10 μ M Camptothecin (CPT) treatment for 60 min after 48 h post-transfection of siNUSAP1, siDHX9, or both. Serial dilutions of RNA/DNA hybrids (R-loops) and dsDNA extracts were spotted on the membrane for each condition. R-loop formation was increased with CPT treatment. siNUSAP1 alone reduced R-loop levels, while siDHX9 significantly increased R-loops. siDHX9 and siNUSAP1 together did not reduce the accumulation of R-loops compared to siDHX9 alone. Bottom panels anti-DS DNA antibody serves as loading control. (B) S9.6 signal from the dot-blots in the 100 ng nucleic acid samples normalized by dsDNA signal quantified using Image J ($n = 3$). (C) Immunofluorescent staining using anti- γ H2AX (red) to assess DNA damage without and with CPT treatment in LNCaP cells. siNUSAP1 decreases γ H2AX staining while siDHX9 increases staining significantly, which is not affected by siNUSAP1. DAPI (blue). Scale bar = 10 μ m. (D) γ H2AX fluorescence intensities quantified by Image J ($n = 3$). (E) Representative Western blot analysis of NUSAP1, ILF2, DHX9, H2AX, and γ H2AX protein levels with CPT and the respective siRNA treatments ($n = 3$). siCtrl, siControl; siN + siD, siNUSAP1 + siDHX9. *, $p < 0.05$; **, $p < 0.01$; ****, $p < 0.0001$; NS, $p > 0.05$. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37047232>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.





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Products Related to NBP2-13685

NBP2-13685PEP	NUSAP1 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

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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