Product Datasheet

SNRPA1 Antibody - BSA Free
NBP2-33447

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 Publications: 1

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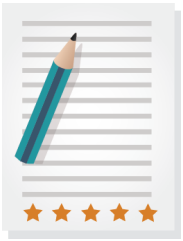
Updated 9/9/2025 v.20.1



NBP2-33447

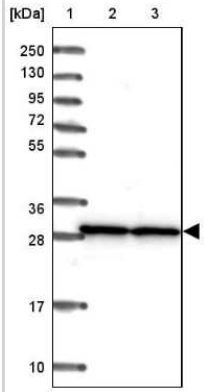
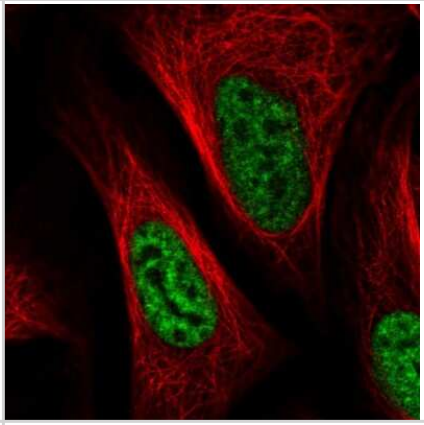
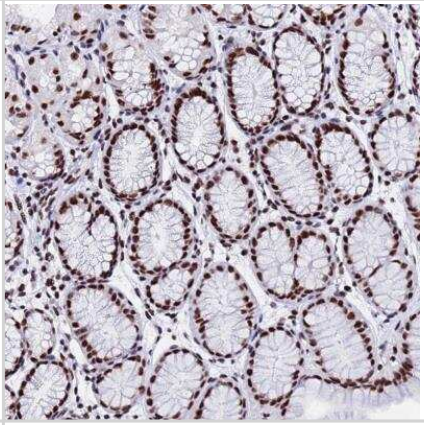
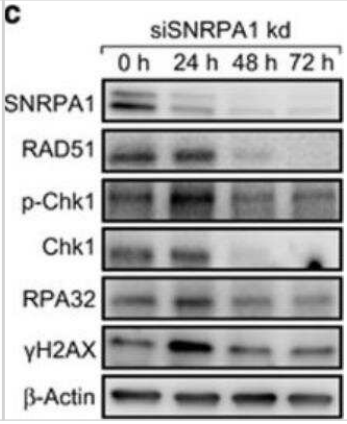
SNRPA1 Antibody - BSA Free

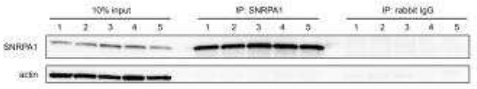
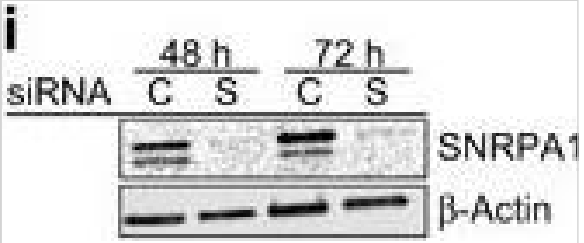
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

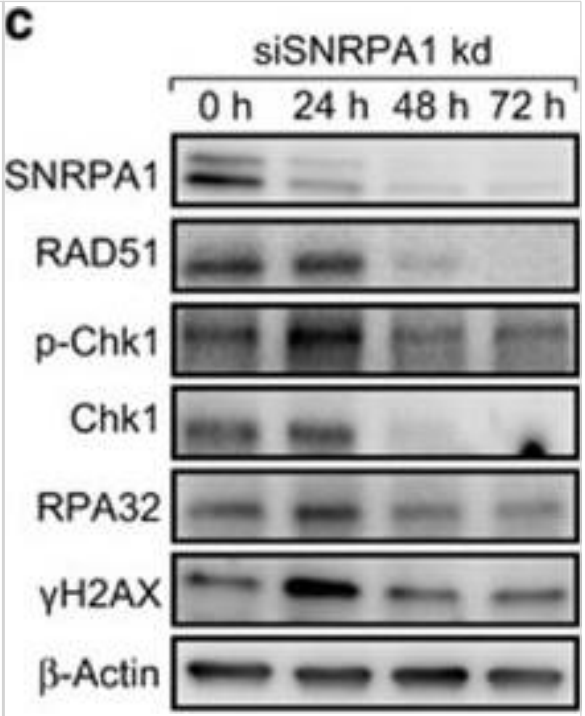
Product Description	
Description	Novus Biologicals Rabbit SNRPA1 Antibody - BSA Free (NBP2-33447) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-SNRPA1 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	6627
Gene Symbol	SNRPA1
Species	Human
Immunogen	This antibody was developed against a recombinant protein corresponding to amino acids: VTNKKHYRLYVIYKVPQVRVLDFQKVKLKERQEAEKMFKGKRGAQLAKDIARR SKTFNPGAGLPTDKKKGGPSP

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunoprecipitation, Immunohistochemistry-Paraffin 1:200 - 1:500, Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. SNRPA1 Antibody is validated for IP from a verified customer review.

Images

Western Blot: SNRPA1 Antibody [NBP2-33447] - Lane 1: Marker [kDa] 250, 130, 95, 72, 55, 36, 28, 17, 10. Lane 2: Human cell line RT-4. Lane 3: Human cell line U-251MG sp	
Immunocytochemistry/Immunofluorescence: SNRPA1 Antibody [NBP2-33447] - Immunofluorescent staining of human cell line U-2 OS shows localization to nuclear speckles.	
Immunohistochemistry-Paraffin: SNRPA1 Antibody [NBP2-33447] - Staining of human stomach, upper shows strong nuclear positivity in glandular cells.	
Western Blot: SNRPA1 Antibody [NBP2-33447] - After indicated time periods of SNRPA1 knockdown, cells were collected and analyzed by western blotting. Forty-eight hours after SNRPA1 depletion, protein expression levels of RAD51 and Chk1 were already reduced. At 24h after siSNRPA1 transfection, gamma-H2AX levels transiently increased and then declined. Image collected and cropped by CiteAb from the following publication (nature.com/articles/oncsis201670), licensed under a CC-BY license.	

Immunoprecipitation: SNRPA1 Antibody [NBP2-33447] - Immunoprecipitation of SNRPA1 using NBP2-33447 or Rabbit IgG isotype control at a 1:100 dilution, followed by pulldown with Protein A magnetic beads. IP image submitted by a verified customer review.	
Western Blot: SNRPA1 Antibody [NBP2-33447] - Recruitment kinetics of SNRPA1 & SF3A3 after laser microirradiation & SNRPA1-dependent recruitment of RAD51 & BRCA1 to laser tracks. (a) Image-based cytometry reveals increased γH2AX formation after 72 h SNRPA1 knockdown in U2OS cells. SNRPA1 knockdown effciency is shown in the bar graph. U2OS cells transiently (b) or stably (c) expressing SNRPA1-GFP were microirradiated & protein recruitment followed in real-time. For transcription & splicing inhibition cells were pretreated with DRB (50 μM) or SSA (100 nM) for at least 1 h before damage induction. Representative confocal images & recruitment kinetics are shown. (d) As in (b & c) but in cells stably expressing SF3A3-GFP. (e) Generation of R-loops at laser tracks visualized by HB-GFP recruitment. HB-GFP recruitment kinetics resemble SNRPA1-GFP. (f) Schematic of SNRPA1 deletion constructs. (g) Representative confocal images of recruitment of wild-type & mutated GFP-tagged SNRPA1 after laser microirradiation. (h) Quantification of recruitment, non-recruitment & displacement of GFP-tagged SNRPA1 fusions. Ten cells were analyzed per condition. (i) Confirmation of siRNA-mediated depletion of SNRPA1 after 48 & 72 h knockdown in cells used in (j). (j) Recruitment of RAD51 & BRCA1 in control & SNRPA1-depleted U2OS cells. U2OS cells were transfected with control or SNRPA1 siRNA & 48 or 72 h later microirradiated, fixed after indicated repair times & stained for γH2AX, RAD51 & BRCA1. Representative confocal images & percentage of cells displaying RAD51 & BRCA1 recruitment are shown. Scale bar 5 or 10 μM (i). Statistically significant differences were determined using Student's t-test, *P<0.05, **P<0.01. Error bars represent s.e.m. RFU (relative fluorescence units). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/27991914), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	



Western Blot: SNRPA1 Antibody [NBP2-33447] - SNRPA1 knockdown impairs BRCA1 & RAD51 accumulation at endonuclease (FokI) cleaved single DSB sites & radiation-induced DSB sites. (a) Visualization of endonuclease-mediated DSB induced by Shield 1 addition in 2-6-5 reporter cells with mCherry-LacI-FokI fusion protein expression. Cells were transfected with indicated siRNA, & 48 h later 4-OHT & Shield 1 were added for 5 h to induce mCherry-LacI-FokI expression. Cells were fixed & immunostained with indicated antibodies. In SNRPA1-depleted cells, BRCA1 & RAD51 accumulation to endonuclease cleaved single DSB sites were significantly reduced. (b) U2OS cells were transfected with control or SNRPA1 siRNA & after indicated time periods irradiated with 2 Gy. Two hours after irradiation, cells were fixed & immunostained. Quantification of RAD51 (>12 foci), γH2AX (>12 foci), BRCA1 (>12 foci) & RPA (>12 foci) positive cells. For each condition, more than 400 cells were analyzed. (c) After indicated time periods of SNRPA1 knockdown, cells were collected & analyzed by western blotting. Forty-eight hours after SNRPA1 depletion, protein expression levels of RAD51 & Chk1 were already reduced. At 24 h after siSNRPA1 transfection, γH2AX levels transiently increased & then declined. The error bars represent s.e.m. from three independent experiments (n=3). Statistically significant differences between cells treated with control or splicing factor siRNA were determined using Student's t-test, *P<0.05, **P<0.01. Scale bar is 10 μm. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/27991914), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Publications

Tanikawa M, Sanjiv K, et al. The spliceosome U2 snRNP factors promote genome stability through distinct mechanisms; transcription of repair factors and R-loop processing. Oncogenesis 2016-12-19 [PMID: 27991914] (WB, Human)

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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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