Product Datasheet

Nbs1 Antibody NB100-143

Unit Size: 0.05 ml

Store at 4C. Do not freeze.

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NB100-143

Nbs1 Antibody

Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera
Target Molecular Weight	85 kDa
Product Description	
Host	Rabbit
Gene ID	4683
Gene Symbol	NBN
Species	Human, Mouse, Hamster, Mammal, Primate
Reactivity Notes	Human and Mouse reactivity reported in multiple pieces of scientific literature. Sumatran orangutan (Pongo abelii), white-cheeked gibbon (Nomascus leucogenys), and rhesus macaque (Macaca mulatta) reactivity reported in scientific literature (PMID: 27512903). Hamster reactivity reported in scientific literature (PMID: 23255801). Potorous tridactylus reactivity reported in scientific literature (PMID: 24064949). African green monkey reactivity reported in scientific literature (PMID: 24064949).
Immunogen	Nbs1 Antibody was made to a partial length human NBS1 protein [Swiss-Prot: O60934].
Product Application Details	
Applications	Western Blot, Chromatin Immunoprecipitation, ELISA, Flow Cytometry, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, In- situ Hybridization, SDS-Page, Chromatin Immunoprecipitation (ChIP), Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot 1:1000. Use reported in multiple pieces of scientific literature, Chromatin Immunoprecipitation reported in multiple pieces of scientific literature, Flow Cytometry reported in multiple pieces of scientific literature, ELISA, Immunohistochemistry 1:100 - 1:200, Immunocytochemistry/ Immunofluorescence 1:50-1:200. Use reported in multiple pieces of scientific literature, Immunoprecipitation 3 ul. Use reported in multiple pieces of scientific literature, Immunohistochemistry-Paraffin 1:100 - 1:200, Immunoblotting, In-situ Hybridization reported in scientific literature (PMID 26415217), SDS-Page, Chromatin Immunoprecipitation (ChIP), Knockout Validated, Knockdown Validated
Application Notes	NBS1. By ICC/IF, this antibody has been used with methanol-fixed IMR90 primary human fibroblasts. IP tests have been done with 3-4 x 10^6 cells.







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Images

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PML

Merge

NBS1











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Publications

Chen Y, Wu J, Zhai L, Zhang T et Al. Metabolic regulation of homologous recombination repair by MRE11 lactylation Cell 2023-12-21 [PMID: 38128537]

Pessina F, Giavazzi F, Yin Y et al. Functional transcription promoters at DNA double-strand breaks mediate RNAdriven phase separation of damage-response factors. Nature cell biology 2020-02-11 [PMID: 31570834]

Jake R. Conway, Riaz Gillani, Jett Crowdis, Brendan Reardon, Jihye Park, Seunghun Han, Breanna Titchen, Mouadh Benamar, Rizwan Haq, Eliezer M. Van Allen Somatic structural variants drive distinct modes of oncogenesis in melanoma The Journal of Clinical Investigation 2024-05-14 [PMID: 38758740]

Matthias Altmeyer, Kai J. Neelsen, Federico Teloni, Irina Pozdnyakova, Stefania Pellegrino, Merete Grøfte, Maj-Britt Druedahl Rask, Werner Streicher, Stephanie Jungmichel, Michael Lund Nielsen, Jiri Lukas Liquid demixing of intrinsically disordered proteins is seeded by poly(ADP-ribose) Nature Communications 2015-08-19 [PMID: 26286827]

Park S, Kwon M, Ju E et al. Targeting phosphomevalonate kinase enhances radiosensitivity via ubiquitination of the replication protein A1 in lung cancer cells Cancer Science 2023-07-05 [PMID: 37650703] (ICC/IF, Human)

Nechay M, Wang D, Kleiner RE Inhibition of nucleolar transcription by oxaliplatin involves ATM/ATR kinase signaling Cell chemical biology 2023-06-28 [PMID: 37433295]

Schuhwerk H, Kleemann J, Gupta P et al. The EMT transcription factor ZEB1 governs a fitness-promoting but vulnerable DNA replication stress response Cell reports 2022-12-13 [PMID: 36516781] (Immunocytochemistry/ Immunofluorescence, Human)

Mann A, Ramirez-Otero MA, De Antoni A et al. POL0 prevents MRE11-NBS1-CtIP-dependent fork breakage in the absence of BRCA2/RAD51 by filling lagging-strand gaps Molecular cell 2022-11-17 [PMID: 36400008] (WB, Human)

Ferrari S, Jacob A, Cesana D et al. Choice of template delivery mitigates the genotoxic risk and adverse impact of editing in human hematopoietic stem cells Cell stem cell 2022-10-06 [PMID: 36206730] (ICC/IF, Human)

Berthault N, Bergam P, Pereira F et al. Inhibition of DNA Repair by Inappropriate Activation of ATM, PARP, and DNA-PK with the Drug Agonist AsiDNA Cells 2022-07-08 [PMID: 35883597] (ICC, Human)

Scott WA The ATRX Chromatin Remodelling/Helicase Protein Maintains Telomere Integrity Through its Protein Associations Thesis 2022-01-01

Fitieh, A;Locke, AJ;Mashayekhi, F;Khaliqdina, F;Sharma, AK;Ismail, IH; BMI-1 regulates DNA end resection and homologous recombination repair Cell reports [PMID: 35320715]

More publications at <u>http://www.novusbio.com/NB100-143</u>



Procedures

Western Blot protocol for Nbs1 Antibody (NB100-143)

Western Blot Procedure

- 1. Run ~50ug of protein on a 4-20% Tris-glycine mini-gel at 125V for 90 minutes.
- 2. Equilibrate gel, nitrocellulose membrane, Whatman paper, and blotting pads in transfer buffer for 15 minutes.
- 3. Transfer protein to the membrane at 25V for 90 minutes.
- 4. Allow membrane to air-dry.
- 5. Block membrane with 1XPBS/3% BSA for 1 hour at room temperature (~23-27 degrees C).
- 6. Wash membrane twice, for 5 minutes each, with 1XPBS/0.05% Tween-20 (PBST).
- 7. Incubate membrane with NB100-143 (anti-hp95/nibrin), diluted in 1XPBS/1% BSA, for 1 hour at room temperature.

8. Wash membrane once for 15 minutes, then four times for 5 minutes each, with PBST.

- 9. Incubate membrane with goat anti-rabbit IgG-HRP, diluted in 1XPBS/1% BSA, for 1 hour at room temperature.
- 10. Wash membrane once for 15 minutes, then four times for 5 minutes each, with PBST.

11. Detect cross-reacting proteins using Renaissance Chemiluminescence Reagent Plus kit from NEN Life Sciences. Note: HeLa whole cell extracts (NB800-PC1) were used as a positive control for this antibody.





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Products Related to NB100-143

NBP2-24891	Rabbit IgG Isotype Control
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NBL1-13497	Nbs1 Overexpression Lysate

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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