

# Product Datasheet

## Senataxin Antibody - BSA Free NB100-57542

Unit Size: 100 ul

Store at 4C. Do not freeze.

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**NB100-57542**

Senataxin Antibody - BSA Free

Product Information	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
<b>Target Molecular Weight</b>	303 kDa

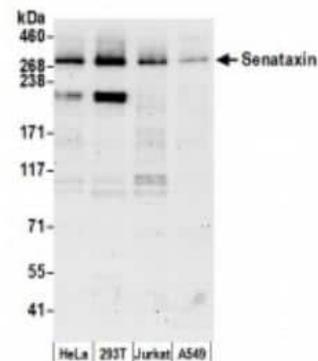
Product Description	
<b>Description</b>	Novus Biologicals Rabbit Senataxin Antibody - BSA Free (NB100-57542) is a polyclonal antibody validated for use in WB, ICC/IF, IP and ChIP. Anti-Senataxin Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	23064
<b>Gene Symbol</b>	SETX
<b>Species</b>	Human
<b>Immunogen</b>	The immunogen recognized by this antibody maps to a region between residue 875 and 925 of human senataxin using the numbering given in entry NP_055861.2 (GeneID 23064).

Product Application Details	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 1:2000-1:10000, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 2 - 5 ug/mg lysate, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
<b>Application Notes</b>	Use in ICC/IF reported in scientific literature (PMID: 24105744). Use in chromatin immunoprecipitation reported in scientific literature (PMID: 31533039).

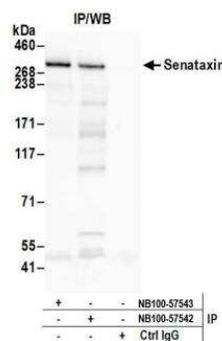


## Images

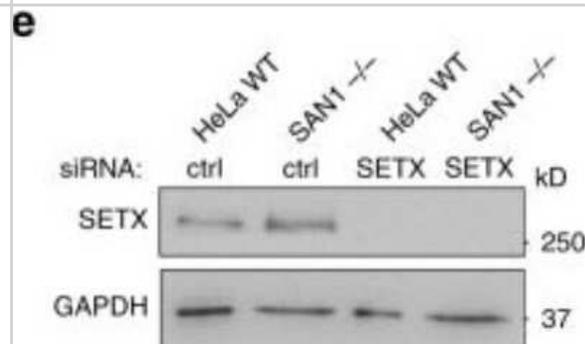
Western Blot: Senataxin Antibody [NB100-57542] - Whole cell lysate (5 ug) from HeLa, 293T, Jurkat, and A549 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-Senataxin antibody used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 75 seconds.



Immunoprecipitation: Senataxin Antibody [NB100-57542] - Detection of human Senataxin by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-Senataxin antibody NB100-57542 used for IP at 3 ug per reaction. Senataxin was also immunoprecipitated by rabbit anti-Senataxin antibody NB100-57543. For blotting immunoprecipitated Senataxin, NB100-57542 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



Western Blot: Senataxin Antibody [NB100-57542] - SAN1 interacts with the RNA/DNA helicase sSenataxin. IB of SETX siRNA knockdown. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41467-018-05008-8>), licensed under a CC-BY license.



## Publications

Wu T, Li Y, Zhao Y et al. Break-induced replication is activated to repair R-loop-associated double-strand breaks in SETX-deficient cells. *Cell reports* 2025-09-30 [PMID: 41037402]

Said M, Barra V, Balzano E et al. FANCD2 promotes mitotic rescue from transcription-mediated replication stress in SETX-deficient cancer cells *Communications biology* 2022-12-21 [PMID: 36543851] (WB, Human)

Said M, Barra V, Balzano E et al. FANCD2 promotes mitotic rescue from transcription-mediated replication stress in SETX-deficient cancer cells *Communications biology* 2022-12-21 [PMID: 36543851] (WB, Human)

Cristini A, Ricci G, Britton S et al. Dual Processing of R-Loops and Topoisomerase I Induces Transcription-Dependent DNA Double-Strand Breaks *Cell Rep* 2019-09-17 [PMID: 31533039] (Chemotaxis, Human)

Makharashvili N, Arora S, Yin Y et al. Sae2/CtIP prevents R-loop accumulation in eukaryotic cells *Elife* 2018-12-07 [PMID: 30523780] (WB, Human)

Andrews AM, McCartneY HJ, Errington TM et al. A senataxin-associated exonuclease SAN1 is required for resistance to DNA interstrand cross-links. *Nat Commun.* 2018-07-03 [PMID: 29968717] (WB, Human)

Cohen S, Puget N, Lin YL, Clouaire T. Senataxin resolves RNA:DNA hybrids forming at DNA double-strand breaks to prevent translocations. *Nat Commun.* 2018-02-07 [PMID: 29416069] (WB, Human)

Nguyen HD, Yadav T, Giri S et al. Functions of Replication Protein A as a Sensor of R Loops and a Regulator of RNaseH1. *Mol. Cell.* 2017-03-02 [PMID: 28257700]

Richard P, Feng S, Manley JL. A SUMO-dependent interaction between Senataxin and the exosome, disrupted in the neurodegenerative disease AOA2, targets the exosome to sites of transcription-induced DNA damage. *Genes Dev.* 2013-10-15 [PMID: 24105744] (ICC/IF, Human)





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### **Products Related to NB100-57542**

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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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