Product Datasheet

Senataxin Antibody - BSA Free
NBP1-94712

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

Reviews: 1 Publications: 8

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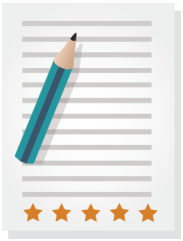
www.novusbio.com/NBP1-94712

Updated 10/12/2025 v.20.1



NBP1-94712

Senataxin Antibody - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

Product Description

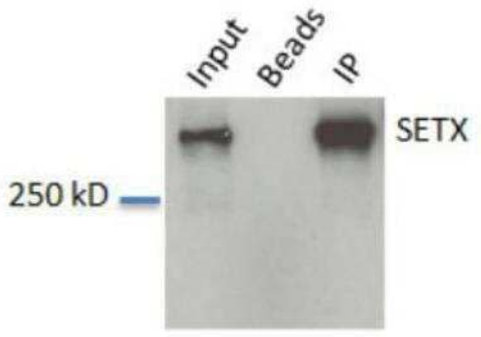
Description	Novus Biologicals Rabbit Senataxin Antibody - BSA Free (NBP1-94712) is a polyclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-Senataxin Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	23064
Gene Symbol	SETX
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 28245518).
Immunogen	A partial recombinant protein made to an internal portion of the human Senataxin protein (between residues 600-750) [UniProt Q7Z333]

Product Application Details

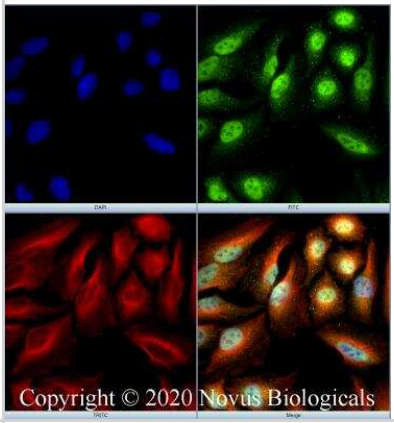
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500, Flow Cytometry 1:10 - 1:1000, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 1:500, Immunohistochemistry-Paraffin 1:200 - 1:500
Application Notes	In ICC/IF, nuclear staining was observed in HeLa cells. In IP and Western blot a band is seen at ~300 kDa.

Images

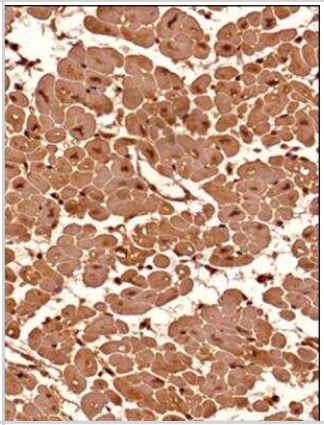
Western Blot: Senataxin Antibody [NBP1-94712] - Input: HeLa whole cell lysate. Beads without antibody IP control. IP: IP from HeLa lysate.



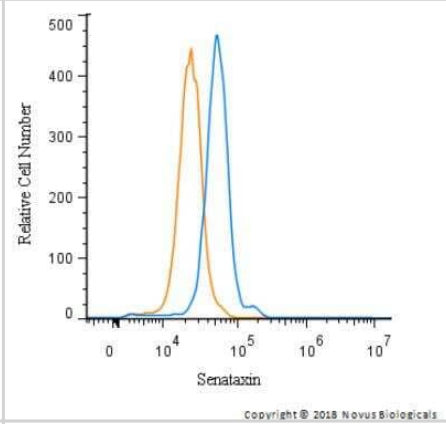
Immunocytochemistry/Immunofluorescence: Senataxin Antibody [NBP1-94712] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton-X100. The cells were incubated with anti-Senataxin at 2 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



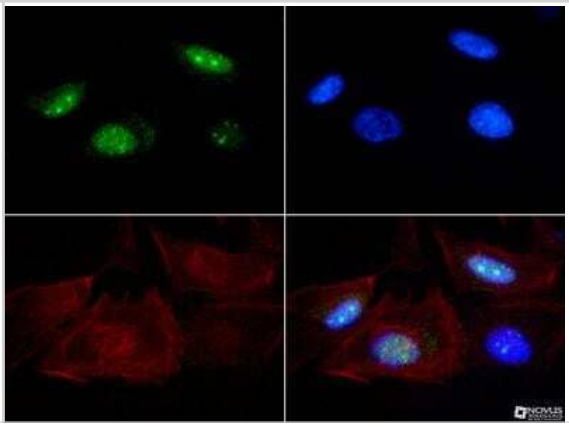
Immunohistochemistry-Paraffin: Senataxin Antibody [NBP1-94712] - Analysis of a FFPE tissue section of human heart (transverse section) using 1:200 dilution of lot A2 of Senataxin antibody. The antibody generated a very strong staining in the cytoplasm and the nuclei of the muscle cells. No signal was found in the perimysium and endomycium area (connective tissue) of the section.



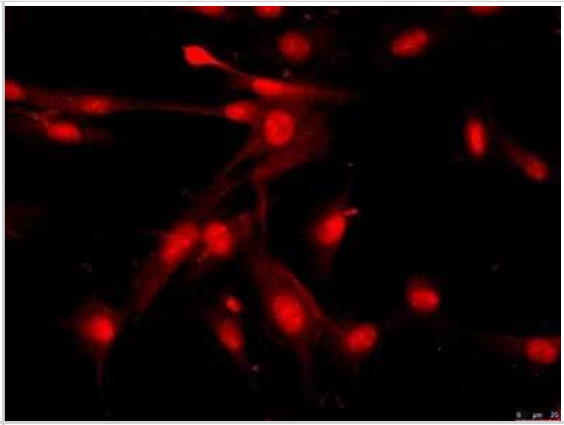
Flow Cytometry: Senataxin Antibody [NBP1-94712] - An intracellular stain was performed on Jurkat cells and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature, followed by Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, .



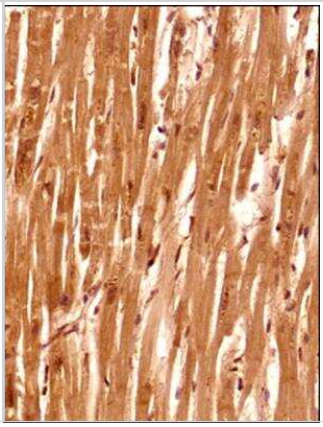
Immunocytochemistry/Immunofluorescence: Senataxin Antibody [NBP1-94712] - Senataxin antibody was tested at 1:100 in HeLa cells with FITC (green). Nuclei and actin were counterstained with DAPI (blue) and Phalloidin (red).



Immunocytochemistry/Immunofluorescence: Senataxin Antibody [NBP1-94712] - Senataxin immunofluorescence in fibroblasts. Image from verified customer review.



Immunohistochemistry-Paraffin: Senataxin Antibody [NBP1-94712] - Analysis of a FFPE tissue section of human heart (verticle section) using 1:200 dilution of lot A2 of Senataxin antibody. The antibody generated a very strong staining in the cytoplasm and the nuclei of the muscle cells. No signal was found in the perimysium and endomycium (connective tissue) of the section.



Publications

Sakasai R, Isono M, Wakasugi M et al. Aquarius is required for proper CtIP expression and homologous recombination repair. Sci Rep. 2017-10-23 [PMID: 29061988] (Western Blot, Human)

Feng S, Desotell A, Ross A et al. A nucleolar long "non-coding" RNA encodes a novel protein that functions in response to stress Proceedings of the National Academy of Sciences of the United States of America 2023-02-28 [PMID: 36812203]

Feng S Nucleolar transcription and its connections to nucleolar homeostasis and mitochondrial stress responses Thesis 2022-01-01

Gatti, V;Fierro, C;Compagnone, M;La Banca, V;Mauriello, A;Montanaro, M;Scalera, S;De Nicola, F;Candi, E;Ricci, F;Fania, L;Melino, G;Peschiaroli, A; delta Np63-Senataxin circuit controls keratinocyte differentiation by promoting the transcriptional termination of epidermal genes Proceedings of the National Academy of Sciences of the United States of America [PMID: 35235452]

Liu Z, Gao X, Zhou Z Et Al. San1 deficiency leads to cardiomyopathy due to excessive R-loop-associated DNA damage and cardiomyocyte hypoplasia Biochimica et biophysica acta. Molecular basis of disease 2021-07-30 [PMID: 34339838] (WB)

Richard P, Feng S, Tsai YL et al. SETX (senataxin), the helicase mutated in AOA2 and ALS4, functions in autophagy regulation Autophagy 2020-07-18 [PMID: 32686621]

Choudhury SD, Vs A, Mushtaq Z, Kumar V. Altered translational repression of an RNA-binding protein, Elav by AOA2 -causative Senataxin mutation. Synapse. 2017-05-01 [PMID: 28245518] (ICC/IF, Mouse)

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] (WB, Human)

Procedures

Western Blot protocol for Senataxin Antibody (NBP1-94712)
Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 10-25 ug of total protein per lane.
2. Transfer proteins to PVDF membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain the membrane with Ponceau S (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot TBS -0.05% Tween 20 (TBST).
5. Block the membrane in 5% Non-fat milk in TBST (blocking buffer) for at least 1 hour.
6. Wash the membrane in TBST three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate overnight at 4C with gentle rocking.
8. Wash the membrane in TBST three times for 10 minutes each.
9. Incubate the membrane in diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) for 1 hour at room temperature.
10. Wash the blot in TBST three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturer's instructions.

Immunocytochemistry/ Immunofluorescence Protocol for Senataxin Antibody (NBP1-94712)
Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and wash the cells briefly in PBS. Add 4% paraformaldehyde to the dish and fix at room temperature for 10 minutes.
2. Remove the paraformaldehyde and wash the cells in PBS.
3. Permeabilize the cells with 0.1% Triton X100 or other suitable detergent for 2 min.
4. Remove the permeabilization buffer and wash three times for 5 minutes each in PBS. Be sure to not let the specimen dry out.
5. To block nonspecific antibody binding, incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
6. Add primary antibody at appropriate dilution and incubate overnight at 4C.
7. Remove primary antibody and replace with PBS. Wash three times for 5 minutes each.
8. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
9. Remove secondary antibody and replace with PBS. Wash three times for 5 minutes each.
10. Counter stain DNA with DAPI if required.

Immunohistochemistry-Paraffin Protocol for Senataxin Antibody (NBP1-94712)
Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:
Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes (keep slides in the sodium citrate buffer at all times).

Staining:
1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in PBS for 5 minutes.
3. Block each section with 100-400 ul blocking solution (1% BSA in PBS) for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul HRP polymer conjugated secondary antibody. Incubate 30 minutes at room temperature.
7. Wash sections three times in wash buffer for 5 minutes each.
8. Add 100-400 ul DAB substrate to each section and monitor staining closely.
9. As soon as the sections develop, immerse slides in deionized water.
10. Counterstain sections in hematoxylin.
11. Wash sections in deionized water two times for 5 minutes each.
12. Dehydrate sections.
13. Mount coverslips.

Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-94712

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.

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