

# Product Datasheet

## Ataxin-2 Antibody - BSA Free

### NBP1-90063

Unit Size: 0.1 ml

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

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**Publications: 6**

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**NBP1-90063**

Ataxin-2 Antibody - BSA Free

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

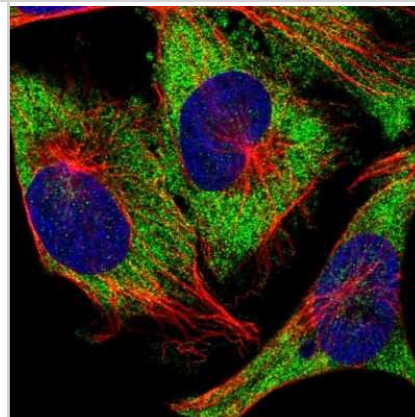
Product Description	
<b>Description</b>	Novus Biologicals Rabbit Ataxin-2 Antibody - BSA Free (NBP1-90063) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Ataxin-2 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	6311
<b>Gene Symbol</b>	ATXN2
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Mouse reactivity reported in (PMID: 36288714).
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: TPPAYSTQYVAYSPQQFPNQPLVQHVPHYQSQHPHVYSPVIQGNARMMAPPT HAQPGLVSSSATQYGAHEQTHAMYACPKLPYNKETSPSFYFAISTGSLAQQYA HPNATLHPHTPHPQPSATPTGQQQSQHGGSHAPS

Product Application Details	
<b>Applications</b>	Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:200
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. Please note that WB is no longer validated for the current lot of this antibody. The publications that cite use of this product in WB were for previous lots. The antibody may work in WB but we do not guarantee it any longer.

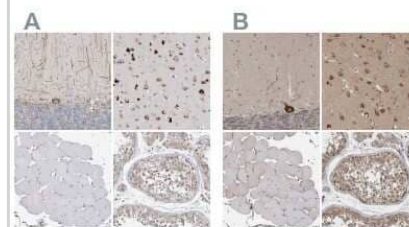


## Images

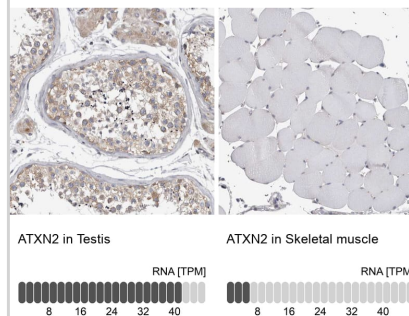
Immunocytochemistry/Immunofluorescence: Ataxin-2 Antibody [NBP1-90063] - Staining of human cell line U-251 MG shows localization to cytosol. Antibody staining is shown in green.



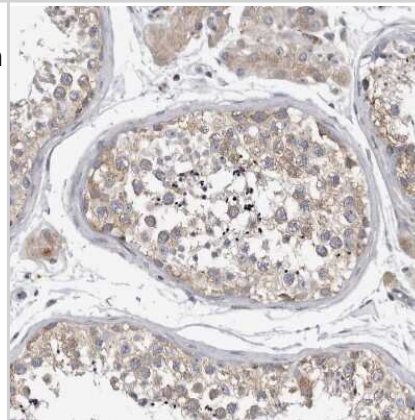
Immunohistochemistry-Paraffin: Ataxin-2 Antibody [NBP1-90063] - Staining of human cerebellum, cerebral cortex, skeletal muscle and testis using Anti-Ataxin-2 antibody NBP1-90063 (A) shows similar protein distribution across tissues to independent antibody NBP1-90062 (B).



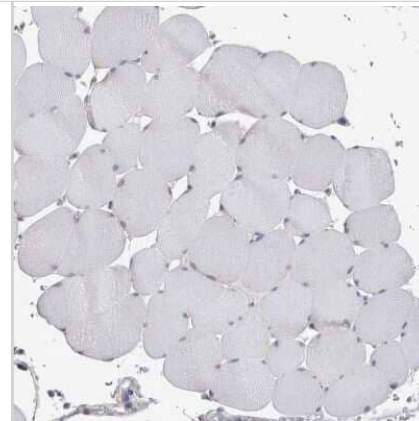
Analysis in human testis and skeletal muscle tissues using NBP1-90063 antibody. Corresponding ATXN2 RNA-seq data are presented for the same tissues.



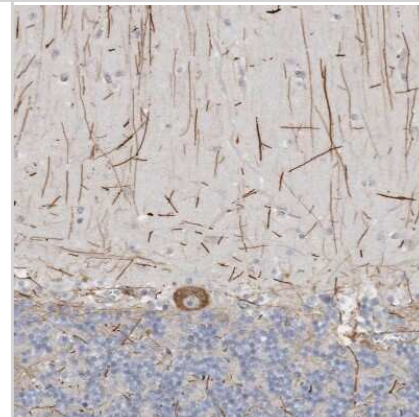
Immunohistochemistry-Paraffin: Ataxin-2 Antibody [NBP1-90063] - Staining of human testis shows moderate cytoplasmic positivity in cells in seminiferous ducts.



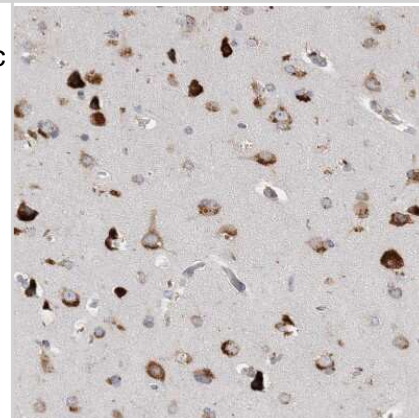
Immunohistochemistry-Paraffin: Ataxin-2 Antibody [NBP1-90063] - Staining of human skeletal muscle shows no positivity in myocytes as expected.



Immunohistochemistry-Paraffin: Ataxin-2 Antibody [NBP1-90063] - Staining of human cerebellum shows strong cytoplasmic positivity in Purkinje cells.



Immunohistochemistry-Paraffin: Ataxin-2 Antibody [NBP1-90063] - Staining of human cerebral cortex shows moderate to strong cytoplasmic positivity in neurons.



## Publications

M. Alejandra Zeballos C., Hayden J. Moore, Tyler J. Smith, Jackson E. Powell, Najah S. Ahsan, Sijia Zhang, Thomas Gaj Mitigating a TDP-43 proteinopathy by targeting ataxin-2 using RNA-targeting CRISPR effector proteins *Nature Communications* 2023-10-14 [PMID: 37838698]

Qiuyu Martin Zhu, Yu-Han H Hsu, Frederik H Lassen, Bryan T MacDonald, Stephanie Stead, Edyta Malolepsza, April Kim, Taibo Li, Taiji Mizoguchi, Monica Schenone, Gaelen Guzman, Benjamin Tanenbaum, Nadine Fornelos, Steven A Carr, Rajat M Gupta, Patrick T Ellinor, Kasper Lage Protein interaction networks in the vasculature prioritize genes and pathways underlying coronary artery disease. *Communications biology* 2024-01-15 [PMID: 38216744]

Kim G, Nakayama L, Blum JA et al. Genome-wide CRISPR screen reveals v-ATPase as a drug target to lower levels of ALS protein ataxin-2 *Cell reports* 2022-10-25 [PMID: 36288714] (ICC/IF, Mouse)

### Details:

Dilution used in ICC 1:1000

Rodriguez CM, Bechek SC, Jones GL et al. Targeting RTN4/NoGo-Receptor reduces levels of ALS protein ataxin-2 *Cell reports* 2022-10-25 [PMID: 36288715] (ICC/IF, WB, Human)

Abraham KJ, Chan JN, Salvi JS et al. Intersection of calorie restriction and magnesium in the suppression of genome-destabilizing RNA-DNA hybrids *Nucleic Acids Res.* 2016-08-29 [PMID: 27574117] (ICC/IF, Human)

Xia G, Santostefano K, Hamazaki T et al. Generation of Human-Induced Pluripotent Stem Cells to Model Spinocerebellar Ataxia Type 2 *In vitro J Mol Neurosci* 2012-12-09 [PMID: 23224816] (ICC/IF, WB, Human)





### **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 NBP1-90063**

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NBP1-90063PEP	Ataxin-2 Recombinant Protein Antigen
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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