

# Product Datasheet

## alpha-Synuclein Antibody - Azide Free NBP2-15365

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

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**NBP2-15365**

alpha-Synuclein Antibody - Azide Free

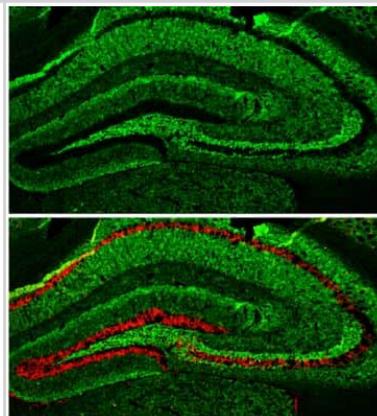
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.025% Proclin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	PBS, 20% Glycerol
<b>Target Molecular Weight</b>	14 kDa

Product Description	
<b>Description</b>	Novus Biologicals Rabbit alpha-Synuclein Antibody - BSA Free (NBP2-15365) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-alpha-Synuclein Antibody: Cited in 11 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	6622
<b>Gene Symbol</b>	SNCA
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Chicken (88%), Xenopus laevis (85%).
<b>Immunogen</b>	Full length human alpha-Synuclein Recombinant protein.

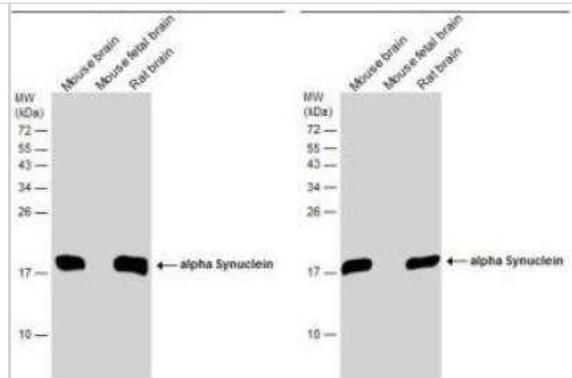
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Sandwich ELISA
<b>Recommended Dilutions</b>	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000, Immunohistochemistry-Frozen 1:100-1:1000, Sandwich ELISA Reported in scientific literature (PMID:35902984).

**Images**

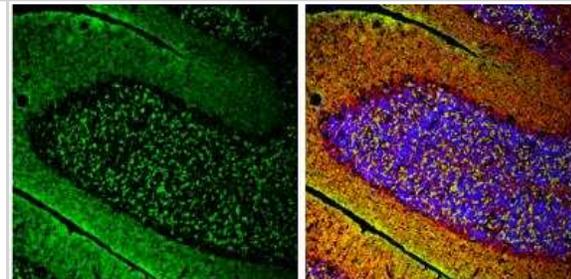
Immunohistochemistry-Frozen: alpha-Synuclein Antibody [NBP2-15365] - Frozen-sectioned adult mouse hippocampus. Green: alpha Synuclein protein stained by alpha Synuclein antibody diluted at 1:250. Red: NeuN, stained by NeuN antibody [2Q158] diluted at 1:500.



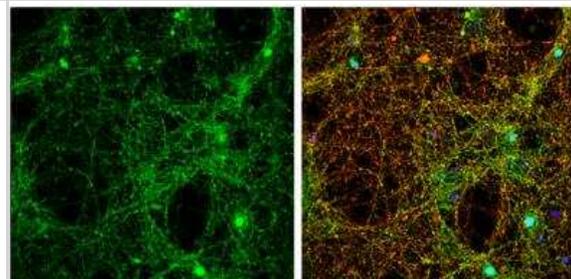
**Western Blot: alpha-Synuclein Antibody [NBP2-15365]** - Various tissue extracts (50 ug) were separated by 15% SDS-PAGE, and the membranes were blotted with alpha Synuclein antibody diluted at 1:2000 and competitor's antibody diluted at 1:2000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



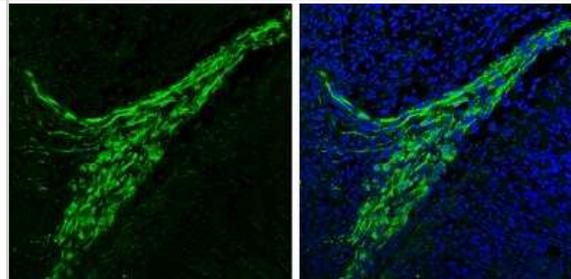
**Immunohistochemistry-Frozen: alpha-Synuclein Antibody [NBP2-15365]** - Frozen-sectioned adult mouse cerebellum. Green: alpha Synuclein protein stained by alpha Synuclein antibody diluted at 1:250. Red: beta Tubulin 3/ TUJ1, stained by beta Tubulin 3/ TUJ1 antibody [11710] (NBP2-43559 diluted at 1:500. Blue: Fluoroshield with DAPI.



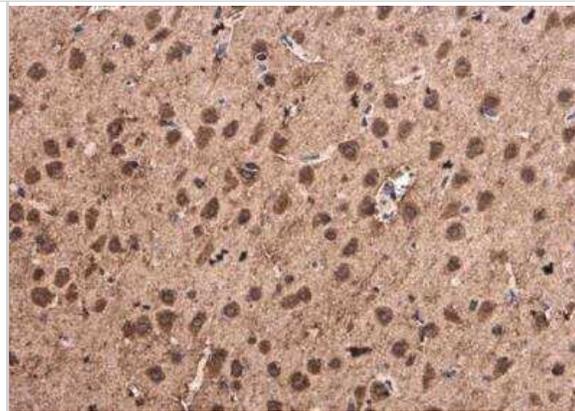
**Immunocytochemistry/Immunofluorescence: alpha-Synuclein Antibody [NBP2-15365]** - DIV14 rat E18 primary cortical neurons were fixed in 4% paraformaldehyde at RT for 15 min. Green: alpha Synuclein protein stained by alpha Synuclein antibody diluted at 1:500. Red: beta Tubulin 3/ Tuj1, stained by beta Tubulin 3/ Tuj1 antibody [1338] diluted at 1:500. Blue: Fluoroshield with DAPI.



**Immunohistochemistry-Frozen: alpha-Synuclein Antibody [NBP2-15365]** - Frozen sectioned E13.5 Rat brain. Green: alpha Synuclein protein stained by alpha Synuclein antibody diluted at 1:250. Blue: Fluoroshield with DAPI.



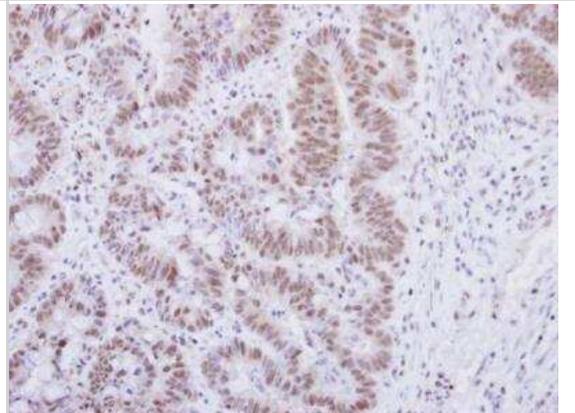
Immunohistochemistry-Paraffin: alpha-Synuclein Antibody [NBP2-15365]  
 - Rat brain. alpha Synuclein antibody diluted at 1:500. Antigen Retrieval:  
 Citrate buffer, pH 6.0, 15 min.



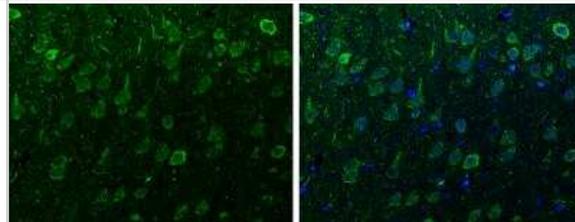
Immunohistochemistry-Paraffin: alpha-Synuclein Antibody [NBP2-15365]  
 - Mouse hippocampus. alpha Synuclein stained by alpha Synuclein  
 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15  
 min.



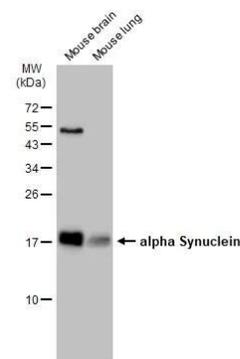
Immunohistochemistry-Paraffin: alpha-Synuclein Antibody [NBP2-15365]  
 - Human colon carcinoma, using alpha Synuclein antibody at 1:250  
 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer,  
 15min.



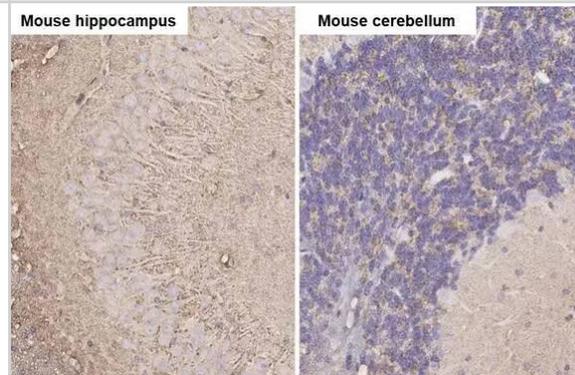
Immunohistochemistry-Paraffin: alpha-Synuclein Antibody [NBP2-15365]  
 - Rat brain. Green: alpha Synuclein antibody diluted at 1:200. The signal  
 was developed using goat anti-rabbit IgG antibody (Dylight488). Blue:  
 Nuclear staining with Hoechst 33342.



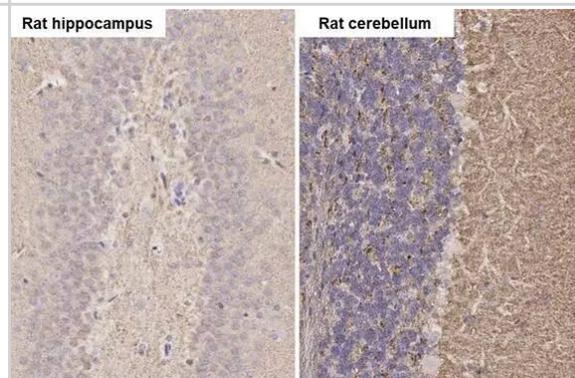
**Western Blot: alpha-Synuclein Antibody [NBP2-15365]** - Various tissue extracts (50 ug) were separated by 15% SDS-PAGE, and the membrane was blotted with alpha-Synuclein antibody (NBP2-15365) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



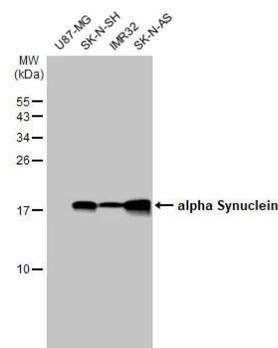
**Immunohistochemistry-Paraffin: alpha-Synuclein Antibody [NBP2-15365]** - alpha-Synuclein antibody detects alpha-Synuclein protein by immunohistochemical analysis. Sample: Paraffin-embedded mouse tissues. alpha-Synuclein stained by alpha-Synuclein antibody (NBP2-15365) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



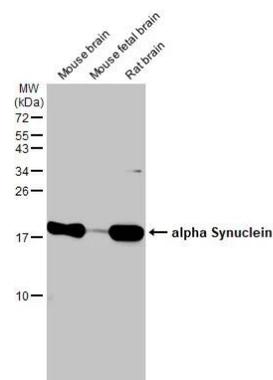
**Immunohistochemistry-Paraffin: alpha-Synuclein Antibody [NBP2-15365]** - alpha-Synuclein antibody detects alpha-Synuclein protein by immunohistochemical analysis. Sample: Paraffin-embedded rat tissues. alpha-Synuclein stained by alpha-Synuclein antibody (NBP2-15365) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



**Western Blot: alpha-Synuclein Antibody [NBP2-15365]** - Various whole cell extracts (30 ug) were separated by 15% SDS-PAGE, and the membrane was blotted with alpha-Synuclein antibody (NBP2-15365) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



Western Blot: alpha-Synuclein Antibody [NBP2-15365] - Various tissue extracts (50 ug) were separated by 15% SDS-PAGE, and the membrane was blotted with alpha-Synuclein antibody ( ) diluted at 1:2000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



## Publications

D'Antongiovanni V, Pellegrini C, Antonioli L et al. Palmitoylethanolamide Counteracts Enteric Inflammation and Bowel Motor Dysfunctions in a Mouse Model of Alzheimer's Disease *Frontiers in Pharmacology* 2021-09-29 [PMID: 34658885] (Immunocytochemistry/ Immunofluorescence, Human)

Lee JY, Wang ZJ, Moscatello A et al. Inflammatory gut as a pathologic and therapeutic target in Parkinson's disease *Cell Death Discovery* 2022-09-24 [PMID: 36153318] (Immunocytochemistry/ Immunofluorescence, Human)

Lee JY, Castelli V, Sanberg PR, Borlongan CV. Probing Gut Participation in Parkinson's Disease Pathology and Treatment via Stem Cell Therapy *International Journal of Molecular Sciences* 2023-06-25 [PMID: 37445778] (Immunocytochemistry/ Immunofluorescence, Human)

Han S, Lim S, Yeo S. Association between Decreased ITGA7 Levels and Increased Muscle  $\alpha$ -Synuclein in an MPTP-Induced Mouse Model of Parkinson's Disease *International Journal of Molecular Sciences* 2022-05-18 [PMID: 35628462] (Immunocytochemistry/ Immunofluorescence, Human)

Lin L, Petralia RS, Holtzclaw L et al. Alzheimer's disease/dementia-associated brain pathology in aging DPP6-KO mice *Neurobiology of disease* 2022-11-01 [PMID: 36209950] (WB)

Plaksina D, Ekimova I Age-Related Features of alpha-Synuclein Pathology in the Brain on Modeling the Preclinical Stage of Parkinson's Disease in Rats *Zh Nevrol Psikhiatr Im S S Korsakova* 2020-10-20 [PMID: 33076642]

Zappelli E, Daniele S, Ceccarelli L et al. Alpha-glycerol-phosphoryl-ethanolamine protects human hippocampal neurons from aging-induced cellular alterations *The European journal of neuroscience* 2022-07-28 [PMID: 35902984] (S-ELISA, Human)

### Details:

NBP2-15365 used as coating antibody, sc-12767, Santa Cruz detection antibody

Akerman S Early biomarker detection & potential novel pathogenic pathways of Alzheimer disease involving A beta and Tau Thesis 2022-01-01

Lin L, Petralia RS, Lake R et al. A novel structure associated with aging is augmented in the DPP6-KO mouse brain *Acta Neuropathol Commun* 2020-11-23 [PMID: 33225987] (IF/IHC, Mouse)

### Details:

DPP6-KO and wild type mice hippocampi were analyzed via immunohistochemistry

Wang H, Dou S, Zhu J et al. Ghrelin protects dopaminergic neurons against MPTP neurotoxicity through promoting autophagy and inhibiting endoplasmic reticulum mediated apoptosis *Brain Res* 2020-07-26 [PMID: 32710901] (ICC/IF, WB)

Zhu J, Dou S, Wang C et al. Apelin-36 mitigates MPTP/MPP<sup>+</sup>-induced neurotoxicity: involvement of alpha-synuclein and endoplasmic reticulum stress *Brain Res.* 2019-07-12 [PMID: 31306618] (WB, ICC/IF, Human, Mouse)

Akerman, SC;Hossain, S;Shobo, A;Zhong, Y;Jourdain, R;Hancock, MA;George, K;Breton, L;Multhaup, G; Neurodegenerative Disease-Related Proteins within the Epidermal Layer of the Human Skin *J. Alzheimers Dis.* 2019-04-15 [PMID: 31006686] (ICC/IF, 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 NBP2-15365

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-54789-100ug	Recombinant Human alpha-Synuclein Active, Pre-formed Fibrils, (Type 1) Protein

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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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

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