

# Product Datasheet

## alpha-Synuclein [p Ser129] Antibody - BSA Free NBP2-61121

Unit Size: 100 ul

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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



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

### Publications: 1

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP2-61121](http://www.novusbio.com/NBP2-61121)

Updated 9/9/2025 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP2-61121](http://www.novusbio.com/reviews/destination/NBP2-61121)



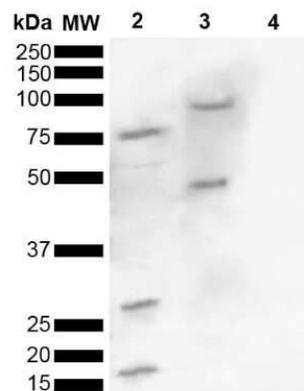
**NBP2-61121**

alpha-Synuclein [p Ser129] Antibody - BSA Free

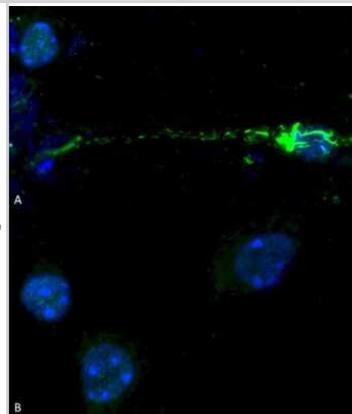
<b>Product Information</b>	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	0.5 mg/ml
<b>Storage</b>	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Peptide affinity purified
<b>Buffer</b>	PBS (pH 7.4), 50% Glycerol
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit alpha-Synuclein [p Ser129] Antibody - BSA Free (NBP2-61121) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-alpha-Synuclein Antibody: Cited in 1 publication. 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>Specificity/Sensitivity</b>	This alpha-Synuclein [p Ser129] Antibody is specific for phosphorylated serine 129 on alpha-synuclein. Does not detect unphosphorylated serine 129 alpha-synuclein. Detects bands at 100, 75, 45, 15 kDa. Bands above 15 kDa are oligomers.
<b>Immunogen</b>	This alpha-Synuclein [p Ser129] Antibody was developed against Synthetic peptide of human alpha-Synuclein pSer129 (40-140 aa), conjugated to Keyhole Limpet Hemocyanin (KLH).
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:1000, ELISA, Immunohistochemistry 1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:500
<b>Application Notes</b>	A 1:1000 dilution of this Antibody was sufficient for detection of Alpha Synuclein pSer129 in 15 ug of human brain cell lysates by ECL immunoblot analysis using goat anti-rabbit IgG:HRP as the secondary antibody.

## Images

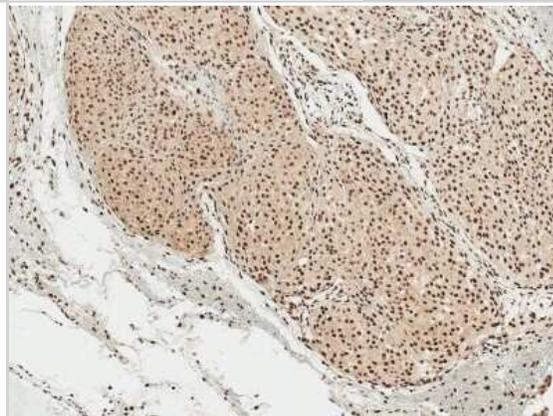
**Western Blot: alpha-Synuclein [p Ser129] Antibody [NBP2-61121]** - Western blot analysis of Human, Mouse brain lysate showing detection of ~16 kDa alpha-Synuclein protein using Rabbit Anti-alpha-Synuclein Polyclonal Antibody (NBP2-61121). Lane 1: Molecular Weight Ladder (MW). Lane 2: Human brain lysate. Lane 3: Mouse brain lysate. Lane 4: Alpha Synuclein Monomer (0.5 ug). Load: 15 ug. Block: 2.5% BSA in TBST. Primary Antibody: Rabbit Anti-alpha-Synuclein Polyclonal Antibody (NBP2-61121) at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Rabbit HRP:IgG at 1:3000 for 1 hour at RT. Color Development: ECL solution for 5 min at RT. Predicted/Observed Size: ~16 kDa. Other Band(s): 100, 75, 45, 30, 16 kDa.



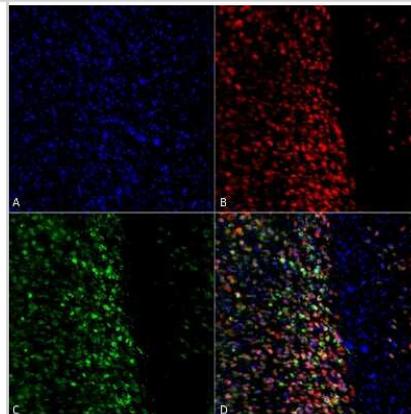
**Immunocytochemistry/Immunofluorescence: alpha-Synuclein [p Ser129] Antibody [NBP2-61121]** - Phospho serine 129 antibody (NBP2-61121) was used to detect phosphorylated alpha synuclein in primary mouse hippocampal neurons treated with 100 nM sonicated mouse alpha synuclein PFFs (A). Phosphorylated alpha synuclein was visible in perinucleus and neurites compared to untreated control (B). Read the protocol at [pabmabs.com/?p=7901](http://pabmabs.com/?p=7901). Image courtesy of Trine Rasmussen, Simon Molgaard Jensen at Aarhus University.



**Immunohistochemistry: alpha-Synuclein [p Ser129] Antibody [NBP2-61121]** - Immunohistochemistry analysis using Rabbit Anti-alpha-Synuclein Polyclonal Antibody (NBP2-61121). Tissue: Brain. Species: Human. Fixation: Formalin Fixed Paraffin-Embedded. Primary Antibody: Rabbit Anti-alpha-Synuclein Polyclonal Antibody (NBP2-61121) at 1:50 for 30 min at RT. Counterstain: Hematoxylin. Magnification: 10X. HRP-DAB Detection.



**Immunocytochemistry/Immunofluorescence: alpha-Synuclein [p Ser129] Antibody [NBP2-61121]** - Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-alpha-Synuclein Polyclonal Antibody (NBP2-61121). Tissue: Primary hippocampal neurons treated with active Alpha Synuclein Protein Aggregate (SPR-322) at 4 g/ml to induce fibrils. Species: Rat. Fixation: 4% paraformaldehyde. Primary Antibody: Rabbit Anti-alpha-Synuclein Polyclonal Antibody (NBP2-61121) at 1:500 for 24 hours at 4C. Secondary Antibody: Goat Anti-Rabbit Alexa Fluor 488 at 1:700 for 1 hour at RT. Counterstain: Guinea Pig Anti-NeuN (red) neuronal marker (Donkey Anti-Guinea Pig Alexa Fluor 647 1:700); Hoechst (blue) nuclear stain at 1:6000, 1:3000 for 60 min at RT, 5 min at RT. Magnification: 20X.



## Publications

Ping Fang, Lewis W. Yu, Hannah Espey, Gulistan Agirman, Sabeen A. Kazmi, Kai Li, Yongning Deng, Jamie Lee, Haley Hrcir, Arlene Romero-Lopez, Arthur P. Arnold, Elaine Y. Hsiao Sex-dependent interactions between prodromal intestinal inflammation and LRRK2 G2019S in mice promote endophenotypes of Parkinson's disease Communications Biology 2024-05-15 [PMID: 38750146]





### **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 NBP2-61121**

---

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

---

### **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)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP2-61121](http://www.novusbio.com/reviews/submit/NBP2-61121)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

