

Product Datasheet

alpha-Synuclein Antibody - BSA Free

NBP2-15365

Unit Size: 0.1 ml

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

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NBP2-15365

alpha-Synuclein Antibody - BSA Free

Product Information

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

Product Description

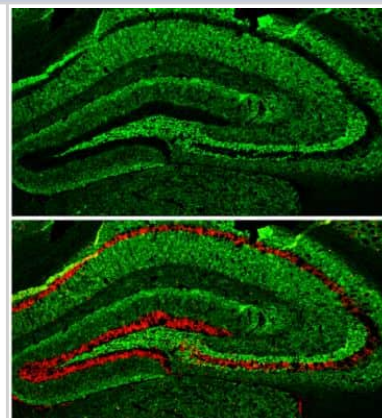
Host	Rabbit
Gene ID	6622
Gene Symbol	SNCA
Species	Human, Mouse, Rat
Reactivity Notes	Chicken (88%), Xenopus laevis (85%).
Immunogen	Full length human alpha-Synuclein Recombinant protein.

Product Application Details

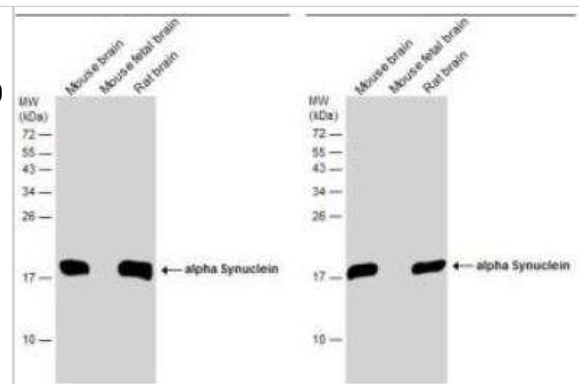
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Sandwich ELISA
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000,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

Images

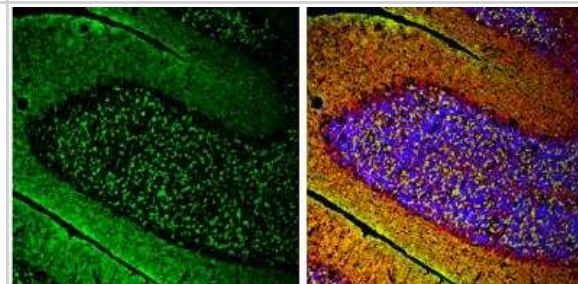
Immunohistochemistry-Frozen: alpha-Synuclein Antibody [NBP2-15365] - Frozen-sectioned adult mouse hippocampus. Green: alpha Synuclein protein stained by alpha Synuclein antibody diluted at 1:250. Red: NeuN, stained by NeuN antibody [2Q158] diluted at 1:500.



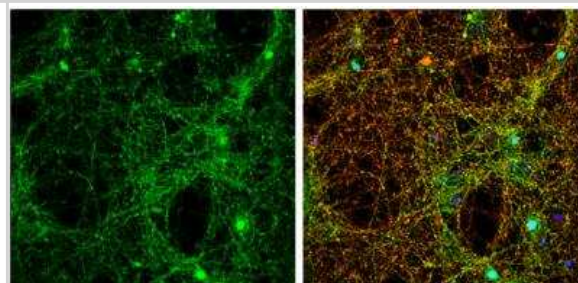
Western Blot: alpha-Synuclein Antibody [NBP2-15365] - Various tissue extracts (50 ug) were separated by 15% SDS-PAGE, and the membranes were blotted with alpha Synuclein antibody diluted at 1:2000 and competitor's antibody diluted at 1:2000. The HRP-conjugated anti-rabbit IgG antibody was used to detect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



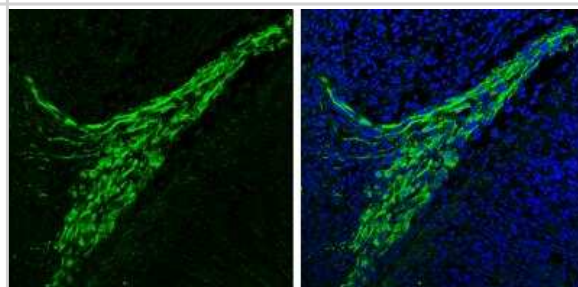
Immunohistochemistry-Frozen: alpha-Synuclein Antibody [NBP2-15365] - Frozen-sectioned adult mouse cerebellum. Green: alpha Synuclein protein stained by alpha Synuclein antibody diluted at 1:250. Red: beta Tubulin 3/ TUJ1, stained by beta Tubulin 3/ TUJ1 antibody [11710] (NBP2-43559 diluted at 1:500.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



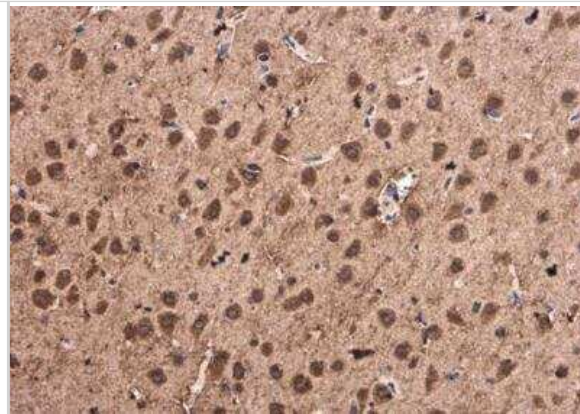
Immunocytochemistry/Immunofluorescence: alpha-Synuclein Antibody [NBP2-15365] - DIV14 rat E18 primary cortical neurons were fixed in 4% paraformaldehyde at RT for 15 min. Green: alpha Synuclein protein stained by alpha Synuclein antibody diluted at 1:500. Red: beta Tubulin 3/ Tuj1, stained by beta Tubulin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



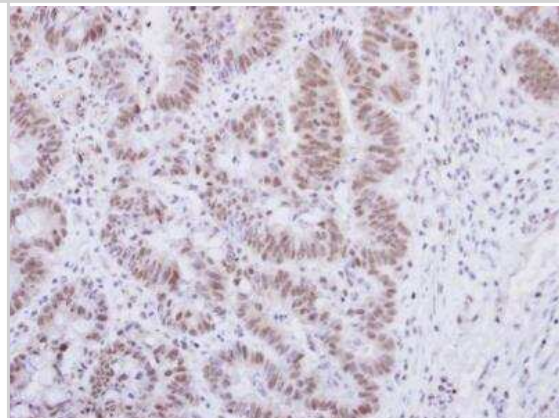
Immunohistochemistry-Paraffin: alpha-Synuclein Antibody [NBP2-15365]
 - Rat brain. alpha Synuclein antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



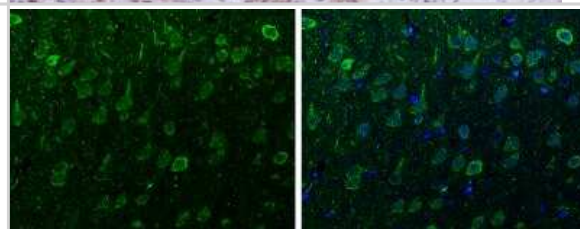
Immunohistochemistry-Paraffin: alpha-Synuclein Antibody [NBP2-15365]
 - Mouse hippocampus. alpha Synuclein stained by alpha Synuclein antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



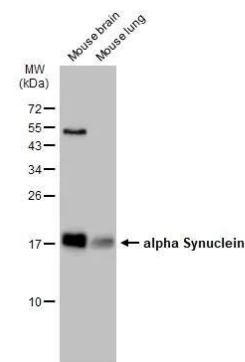
Immunohistochemistry-Paraffin: alpha-Synuclein Antibody [NBP2-15365]
 - Human colon carcinoma, using alpha Synuclein antibody at 1:250 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



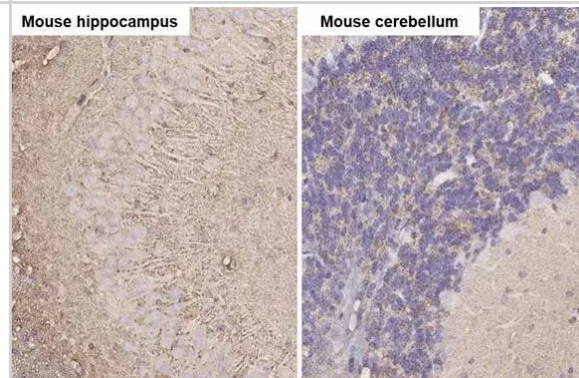
Immunohistochemistry-Paraffin: alpha-Synuclein Antibody [NBP2-15365]
 - Rat brain. Green: alpha Synuclein antibody diluted at 1:200. The signal was developed using goat anti-rabbit IgG antibody (Dylight488). Blue: Nuclear staining with Hoechst 33342.



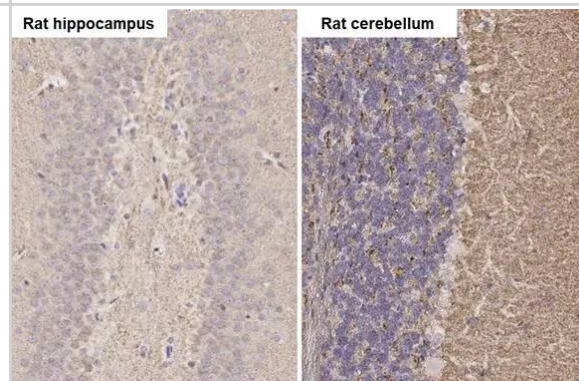
Western Blot: alpha-Synuclein Antibody [NBP2-15365] - Various tissue extracts (50 ug) were separated by 15% SDS-PAGE, and the membrane was blotted with alpha-Synuclein antibody (NBP2-15365) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



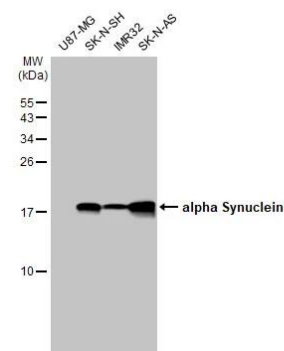
Immunohistochemistry-Paraffin: alpha-Synuclein Antibody [NBP2-15365] - alpha-Synuclein antibody detects alpha-Synuclein protein by immunohistochemical analysis. Sample: Paraffin-embedded mouse tissues. alpha-Synuclein stained by alpha-Synuclein antibody (NBP2-15365) diluted at 1:500. Antigen Retrieval: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



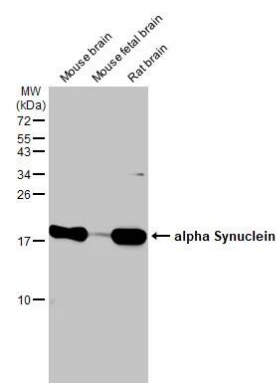
Immunohistochemistry-Paraffin: alpha-Synuclein Antibody [NBP2-15365] - alpha-Synuclein antibody detects alpha-Synuclein protein by immunohistochemical analysis. Sample: Paraffin-embedded rat tissues. alpha-Synuclein stained by alpha-Synuclein antibody (NBP2-15365) diluted at 1:500. Antigen Retrieval: 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

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)

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] (Immunohistochemistry-Frozen, Immunocytochemistry/ Immunofluorescence)

Han S, Lim S, Yeo S. Association between Decreased ITGA7 Levels and Increased Muscle α -Synuclein in an MPTP-Induced Mouse Model of Parkinson's Disease International Journal of Molecular Sciences 2022-05-18 [PMID: 35628462] (Western Blot)

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] (ELISA)

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-glyceryl-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⁺-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)



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Products Related to NBP2-15365

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.

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