

Product Datasheet

alpha-Synuclein [Nitrate Tyr125, Nitrate Tyr133] Antibody (24.8) NBP1-26380

Unit Size: 0.1 ml

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

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NBP1-26380

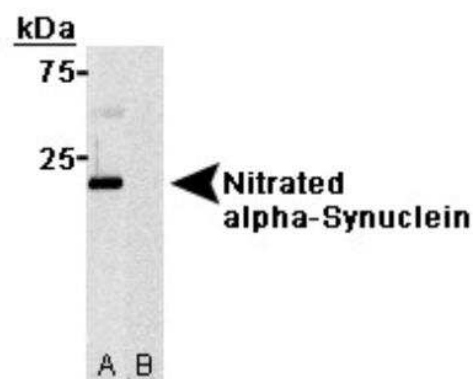
alpha-Synuclein [Nitrate Tyr125, Nitrate Tyr133] Antibody (24.8)

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	24.8
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	Tris-Glycine and 0.15M NaCl
Target Molecular Weight	14 kDa
Product Description	
Host	Mouse
Gene ID	6622
Gene Symbol	SNCA
Species	Human, Mouse
Immunogen	This alpha-Synuclein [Nitrate Tyr125, Nitrate Tyr133] Antibody (24.8) was developed against nitrated human alpha-Synuclein [Uniprot: P37840].
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500-1:1500, Flow Cytometry 1 ug per million cells, Immunohistochemistry 1:200-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:200-1:500, Immunohistochemistry-Frozen
Application Notes	This alpha-Synuclein antibody is useful for for Flow Cytometry, Immunohistochemistry paraffin embedded sections and Western blot, where a band is seen at ~14 kDa. Immunohistochemistry-Frozen was reported in scientific literature. Use in Immunofluorescence was reported in the scientific literature (PMID: 22033456).

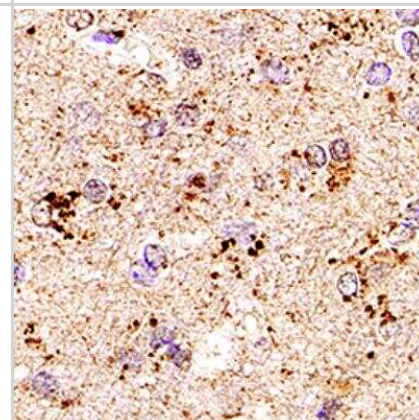


Images

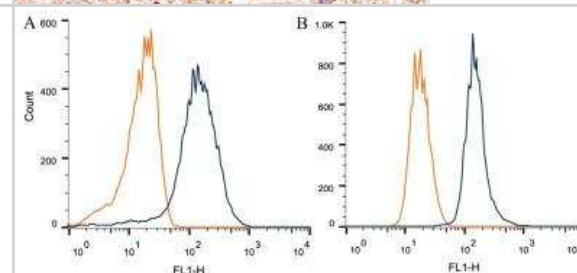
Western Blot: alpha-Synuclein [Nitrate Tyr125, Nitrate Tyr133] Antibody (24.8) [NBP1-26380] - (A) Nitrated Synuclein-alpha protein and (B) Non-nitrated Synuclein-alpha protein.



Immunohistochemistry-Paraffin: alpha-Synuclein [Nitrate Tyr125, Nitrate Tyr133] Antibody (24.8) [NBP1-26380] - Analysis of FFPE human brain using alpha-Synuclein antibody (clone 24.8) at 1:200 on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 30 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Whole slide scanning and capturing of representative images was performed using Aperio AT2 (Leica Biosystems). Cytoplasmic puncta and varicosities staining was observed. Staining was performed by Histowiz.



Flow Cytometry: alpha-Synuclein [Nitrate Tyr125, Nitrate Tyr133] Antibody (24.8) [NBP1-26380] - Intracellular flow cytometric staining of 1×10^6 CHO (A) and HeLa (B) cells using Synuclein-alpha [Nitrate Tyr125, Nitrate Tyr133] antibody (dark blue). Isotype control shown in orange. An antibody concentration of 1 $\mu\text{g}/1 \times 10^6$ cells was used.



Publications

Wi S, Lee JW, Kim M et al. An Enriched Environment Ameliorates Oxidative Stress and Olfactory Dysfunction in Parkinson's Disease with α -Synucleinopathy Cell Transplant Jan 1 2018 12:00AM [PMID: 29707965] (IHC, Human) Cell Transplant. 2018-05-27 [PMID: 29707965] (IF/IHC, Human)

Details:

Citation using the FITC form of this antibody.

Huang Z, Xu Z, Wu Y, Zhou Y. Determining nuclear localization of alpha-synuclein in mouse brains. Neuroscience. 2011-12-29 [PMID: 22033456] (IF/IHC)

Giasson BI et al. Oxidative damage linked to neurodegeneration by selective alpha-synuclein nitration in synucleinopathy lesions. Science;290(5493):985-9. 2000-11-03 [PMID: 11062131] (IHC-Fr, Mouse)

Procedures

Protocol specific for alpha Synuclein Antibody (NBP1-26380)

alpha-Synuclein [Nitrate Tyr125, Nitrate Tyr133] Antibody (24.8):

Procedure Guide for NBP1-26380 - Nitrated alpha-Synuclein (24.8) Antibody

Procedure Guide for NBP1-26380 - Nitrated alpha-Synuclein (24.8) Antibody

Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 30 ug of total protein per lane.
 2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
 3. Rinse membrane with dH₂O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
 4. Rinse the blot in TBS for approximately 5 minutes.
 5. Block the membrane using 5% NFDM + 1% BSA in TBS + Tween, 1 hour at RT.
 6. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
 7. Dilute the mouse anti-Nitrated alpha-Synuclein primary antibody (NBP1-26380) in blocking buffer and incubate 1 hour at room temperature.
 8. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
 9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
 10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 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 manufacturers instructions (Pierce ECL).
- Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

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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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