Product Datasheet

Synuclein-alpha Antibody
NBP1-26380SS

Unit Size: 0.025 ml

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

Publications: 2

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Updated 6/15/2014 v.20.1

NBP1-26380SS

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

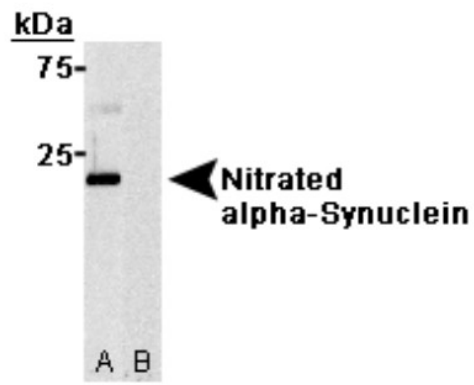
Product Information	
Unit Size	0.025 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	24.8
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	Tris-glycine, 150 mM NaCl
Target Molecular Weight	14 kDa

Product Description	
Host	Mouse
Gene ID	6622
Gene Symbol	SNCA
Species	Human, Mouse
Species Reactivity	Human and Mouse.
Immunogen	Nitrated human alpha-Synuclein [UniProt# P37840]

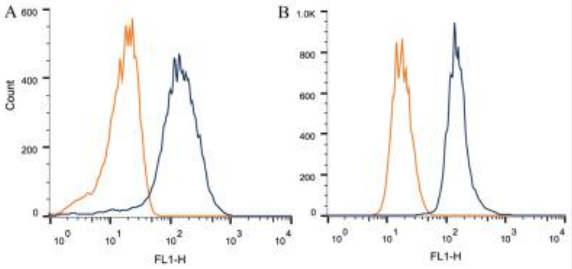
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Flow Cytometry 1 ug per million cells, Immunocytochemistry/Immunofluorescence, Immunohistochemistry 1:200-1:500, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin 1:200-1:500, Western Blot 1:500-1:1500
Application Notes	This alpha-Synuclein antibody is useful for for Flow Cytometry, Immunohistochemisty 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] - Western blot of (A) Nitrated alpha-Synuclein protein and (B) non-nitrated alpha-Synuclein protein.



Flow Cytometry: alpha-Synuclein [Nitrate Tyr125, Nitrate Tyr133] Antibody (24.8) [NBP1-26380] - Intracellular flow cytometric staining of 1 x 10^6 CHO (A) and HeLa (B) cells using alpha-Synuclein [Nitrate Tyr125, Nitrate Tyr133] antibody (dark blue). Isotype control shown in orange. An antibody concentration of 1 ug/1x10^6 cells was used.



Publications

Giasson BI et al. Oxidative damage linked to neurodegeneration by selective alpha-synuclein nitration in synucleinopathy lesions. Science;290(5493):985-9. 2000 Nov 3. [PMID: 11062131] (IHC-Fr, Mouse)

Huang Z, Xu Z, Wu Y, Zhou Y. Determining nuclear localization of alpha-synuclein in mouse brains. Neuroscience. 2011 Oct 19. [PMID: 22033456] (ICC/IF, Mouse)

Procedures

Protocol specific for alpha Synuclein Antibody (NBP1-26380)
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.

For more information on our guarantee, please visit www.novusbio.com/guarantee.