Synuclein-α, Nitrated Monoclonal Antibody
Catalog Number: MMS-556R
Available Size: 0.2 mL

Description:
Monoclonal antibody against nitrated α-synuclein and unmodified α-synuclein

Also Known As:
synuclein alpha-140; non-A4 component of amyloid; alpha-synuclein, isoform NACP140; non-A beta component of AD amyloid Parkinson disease (autosomal dominant, Lewy body) 4

Intended Use:
**Research Use Only (RUO)**
This product is sold for laboratory research use only, not for human or in-vivo use.

Form:
Ascites

Clone:
Syn514

Host:
Mouse

 IsoType:
IgG1

Species Reactivity:
Human

Specificity:
Synucleins are small soluble proteins expressed primarily in neural tissues and in certain tumors. The family includes 3 known proteins, alpha synuclein, beta synuclein and gamma synuclein. All synucleins have in common a highly conserved alpha helical lipid binding motif with similarity to the class-A2 lipid binding domains of the exchangeable apolipoproteins. The alpha and beta synuclein proteins are found primarily in brain tissue, where they are seen mainly in pre-synaptic terminals. Alpha synuclein is believed to be a major component of Lewy bodies in Parkinson's disease. Mutations in alpha synuclein are associated with rare familial cases of early onset Parkinson's disease, Alzheimer's disease and several other neurodegenerative illnesses.

Oxidative injury has been implicated in the pathogenesis of neurodegenerative disorders including Alzheimer’s and Parkinson’s disease. Syn514 was raised using oxidized alpha synuclein and recognizes native alpha synuclein and nitrated/oxidized alpha synuclein. Synuclein 514 also shows some cross reactivity with beta and gamma synucleins.

Uses:
These antibodies are effective in immunoblotting and immunohistochemistry. It has been used effectively in paraffin embedded sections.

Suggested Working Dilution:
The optimal working dilution should be determined for each specific assay condition.

- Western blot: 1:500
- IHC: 1:1000

Tissue: Formalin-fixed Paraffin-embedded sections

Pretreatment: 70% Formic Acid for 20 minutes
Primary Incubation: 24 hours at 4°C
Notes:
IHC Positive Control: Diseased Human Brain

Storage:
Store at -20°C. Upon initial thawing, apportion into working aliquots and store at -20°C. Avoid repeated freeze-thaw cycles to prevent denaturing the antibody. For long-term storage, keep the antibody at -80°C.

References:


Warranty/Conditions:
Covance products may not be resold or modified for resale without prior written approval. All sales are subject to Covance Antibody Products Terms and Conditions of Sale.

Datasheet Revision Date:
2/25/2013