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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Alpha Synuclein pSer129 Monomers



Discovery through Partnership | Excellence through Quality

Human Recombinant Alpha Synuclein pSer129
Monomers
Catalog No. SPR-520

Product Name

Alpha Synuclein pSer129 Monomers

Description

Human Recombinant Alpha Synuclein pSer129 Monomers

Applications

WB, SDS-PAGE, In vivo assay, In vitro assay

Concentration

2 mg/ml or 5 mg/ml

Conjugates

No tag

Nature

Recombinant

Species

Human

Expression System

E. coli

Amino Acid Sequence

MDVFMKGLSK AKEGVAAAE KTKQGVAEAA GKTKEGVLYV GSKTKEGVVH GVATVAEKTQ EQVTNVGGAV VTGVTAV
AQK TVEGAGSIAA ATGFVKKDQL GKNEEGAPQE GILEDMPVDP DNEAYEMPSE EGYQDYEPEA

Purity

>95%

Other Resources

Protein Length

140 AA

Protein Size

~14.46 kDa

Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

Properties

Storage Buffer

PBS pH 7.4

Storage Temperature

-80°C

Shipping Temperature

Dry Ice. Shipping note: Product will be shipped separately from other products purchased in the same order.

Purification

Ion-exchange Purified

Cite This Product

Human Recombinant Alpha Synuclein pSer129 Monomers (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPR-520)

Certificate Of Analysis

Protein certified >95% pure using SDS-PAGE analysis. Low endotoxin <5 EU/mL @ 2mg/mL.

Other Relevant Information

For corresponding PFFs, see Catalog# SPR-521. The unphosphorylated construct is Catalog# SPR-321.

Biological Description

Alternative Names

Alpha synuclein monomer, Alpha-synuclein monomer, Alpha synuclein protein monomer, Alpha synuclein monomer, Alpha-synuclein protein, Non-A beta component of AD amyloid protein, Non-A4 component of amyloid precursor protein, NACP protein, SNCA protein, NACP protein, PARK1 protein, Alpha synuclein monomers, SYN protein, Parkinson's disease familial 1 Protein

Research Areas

Alzheimer's Disease, Neurodegeneration, Neuroscience, Parkinson's Disease, Synuclein, Tangles & Tau, Multiple System Atrophy

Swiss Prot

P37840

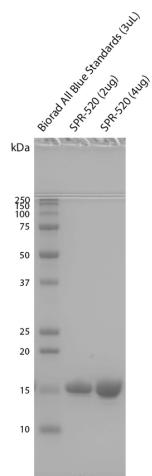
Scientific Background

Serine 129 is the C-terminal serine characteristic to mammalian alpha synuclein, with this serine being determined to be a major phosphorylation site (1). Lewy Bodies in Parkinson's Disease (PD) and other related synucleinopathies are comprised of alpha synuclein phosphorylated at serine 129 and this phosphorylation may contribute to an increased propensity to aggregate (2). Due to phosphorylation at serine 129 being one of the most abundant PTMs, several studies reported on the PTM as a potential biomarker (3). Our Alpha Synuclein Ser129 Monomers are generated in-house and phosphorylation confirmed with our anti-ASYN pS129 monoclonal antibody (Catalog# SMC-600).

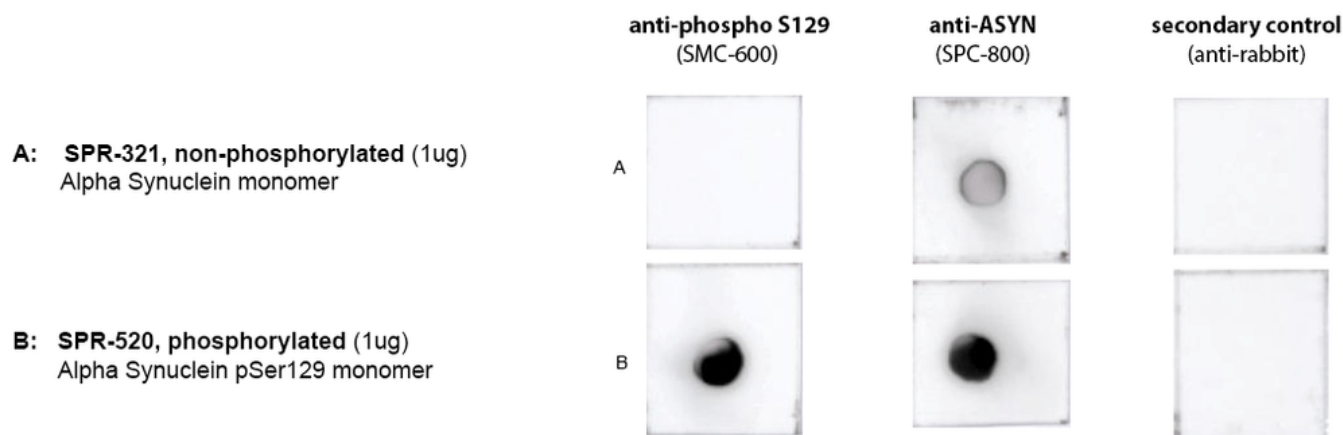
References

1. Okochi et al. 2000. Constitutive phosphorylation of the Parkinson's Disease Associated α -Synuclein. The Journal of Biological Chemistry. DOI: 10.1074/jbc.275.1.390
2. Fujiwara et al. 2002. α -Synuclein is phosphorylated in synucleinopathy lesions. Nature Cell Biology. DOI: 10.1038/ncb748
3. Magalhaes and Lashuel. 2002. Opportunities and challenges of alpha-synuclein as a potential biomarker for Parkinson's disease and other synucleinopathies. Npj Parkinsons Disease. DOI: 10.1038/s41531-022-00357-0

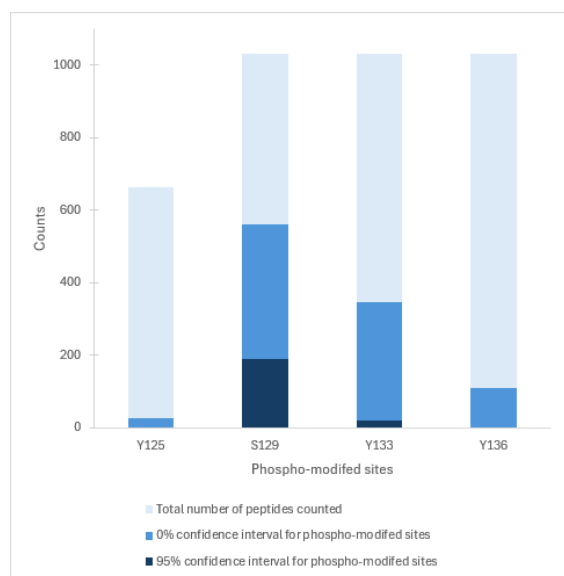
Product Images



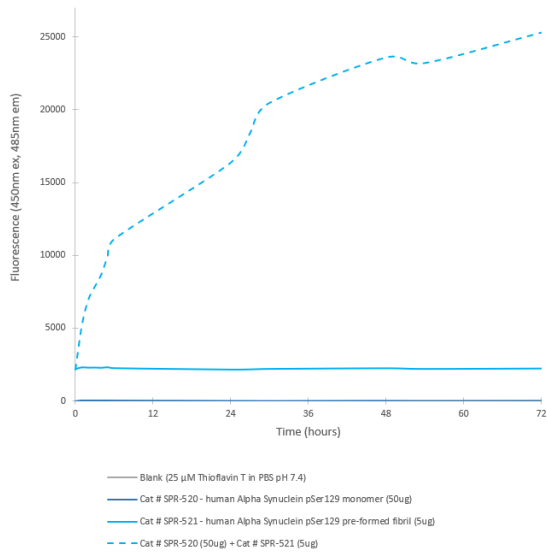
SDS-PAGE analysis of purified Human Recombinant Alpha Synuclein pSer129 Monomers (SPR-520) on a 12% Bis-Tris gel.



Dot Blot of purified Human Recombinant Alpha Synuclein pSer129 Monomers (SPR-520) using Stressmarq's SMC-600 (anti-ASYN pS129) and SPC-800 (anti-ASYN) confirming phosphorylation in SPR-520, compared to SPR-321. Protein was blotted on nitrocellulose, incubated with 1:1000 primary antibodies and/or 1:4000 secondary antibodies. Secondary control is goat-anti rabbit:HRP. Exposed 1 second.



Modified/total phosphorylation PTM spectrum counts of 4 sites on human alpha synuclein pSer129 monomers (SPR-520) as determined by mass spectrometry (ScaffoldPTM, localization probability = 100% at both 0% and 95% min. localization). Trypsin/CNBr digestion was used to accurately determine the presence of phosphorylation at and around S129. Note that total counts may include longer peptides where phosphorylation may be more difficult to detect, and most phospho-modified sites that were detected are at S129.



In vitro seeding activity of Alpha Synuclein pSer129 Monomers in ThT assay. Alpha Synuclein pSer129 Pre-Formed Fibrils (SPR-521) seed fibril formation of Alpha Synuclein pSer129 Monomers (SPR-520) over 72 hours. Reactions (100uL) shaken at 600 rpm in Greiner-Bio 96 Well Non-Binding Cell Culture Microplates, Black (Greiner-Bio Catalog #655900) at 37 °C in the presence of 25 uM ThT and read with an XPS Microplate Reader set at 450nmex/485nmem.

Product Citations

Reviews

There are no reviews yet.