

Product datasheet

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ARG51765 anti-alpha Synuclein phospho (Tyr133) antibody

Package: 100 μl, 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes alpha Synuclein phospho (Tyr133)

Tested Reactivity Hu, Ms, Rat
Tested Application ICC/IF, WB
Host Rabbit
Clonality Polyclonal

Isotype IgG

Target Name alpha Synuclein

Species Human

Immunogen Peptide sequence around phosphorylation site of tyrosine 133 (E-G-Y(p)-Q-D) derived from Human α-

Synuclein.

Conjugation Un-conjugated

Alternate Names Non-A4 component of amyloid precursor; Alpha-synuclein; PARK4; PARK1; PD1; NACP; Non-A beta

component of AD amyloid

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:100 - 1:200
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

FOITH	Liquiu

Purification Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic phosphopeptide.

Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. In addition, non-phospho specific antibodies were removed by chromatogramphy using non-

phosphopeptide.

Buffer PBS (without Mg2+ and Ca2+, pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

Gene Symbol Gene Full Name Background **SNCA**

synuclein, alpha (non A4 component of amyloid precursor)

SncA is a member of the synuclein family of structurally related proteins that are prominently expressed in the central nervous system, which also includes beta- and gamma-synuclein. Synucleins are abundantly expressed in the brain and SncA and Snc-Beta inhibit phospholipase D2 selectively. SncA may serve to integrate presynaptic signaling and membrane trafficking. Aggregated SncA proteins form brain lesions that are hallmarks of neurodegenerative synucleinopathies. Defects in SncA play a role in the pathogenesis of Parkinson disease. SncA peptides are a major component of amyloid plaques in the brains of patients with Alzheimer disease. SncA shares 95% sequence homology with rat SncA. Rat SncA is specifically expressed in brain and is associated with synaptosomal membranes in neurons

May be involved in the regulation of dopamine release and transport. Induces fibrillization of microtubule-associated protein tau. Reduces neuronal responsiveness to various apoptotic stimuli, leading to a

decreased caspase-3 activation. [UniProt]

Research Area Calculated Mw PTM

Function

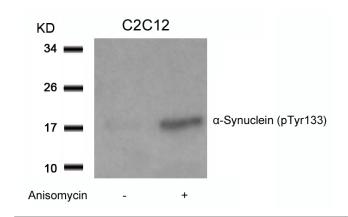
Neuroscience antibody

14 kDa

Phosphorylated, predominantly on serine residues. Phosphorylation by CK1 appears to occur on residues distinct from the residue phosphorylated by other kinases. Phosphorylation of Ser-129 is selective and extensive in synucleinopathy lesions. In vitro, phosphorylation at Ser-129 promoted insoluble fibril formation. Phosphorylated on Tyr-125 by a PTK2B-dependent pathway upon osmotic stress. Hallmark lesions of neurodegenerative synucleinopathies contain alpha-synuclein that is modified by nitration of tyrosine residues and possibly by dityrosine cross-linking to generated stable oligomers. Ubiquitinated. The predominant conjugate is the diubiquitinated form (By similarity).

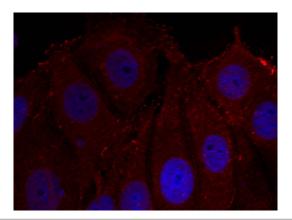
Acetylation at Met-1 seems to be important for proper folding and native oligomeric structure.

Images



ARG51765 anti-alpha Synuclein phospho (Tyr133) antibody WB image

Western blot: Extracts from C2C12 cells untreated or treated with Anisomycin stained with ARG51765 anti-alpha Synuclein phospho (Tyr133) antibody.



ARG51765 anti-alpha Synuclein phospho (Tyr133) antibody ICC/IF image

Immunofluorescence: methanol-fixed HeLa cells stained with ARG51765 anti-alpha Synuclein phospho (Tyr133) antibody.