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Datasheet for ABIN5650939 anti-SNCA antibody (pSer129) (Atto 488)

5 Images



Overview

Quantity:	100 µL
Target:	SNCA
Binding Specificity:	AA 40-140, pSer129
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SNCA antibody is conjugated to Atto 488
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Synthetic peptide of Human Alpha Synuclein pSer129 (40-140 aa), conjugated to Keyhole Limpet Haemocyanin (KLH).
Specificity:	Binds to phosphorylated serine 129 on alpha synuclein. Does not detect unphosphorylated serine 129 alpha synuclein. Detects bands at 100, 75, 45, 15 kDa. Bands above 15 kDa are oligomers.
Purification:	Peptide Affinity Purified

Target Details

Target:	SNCA
Alternative Name:	Alpha Synuclein (SNCA Products)

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Target Details

Background:	Alpha-Synuclein (SNCA) is expressed predominantly in the brain, where it is concentrated in
	presynaptic nerve terminals (1). Alpha-synuclein is highly expressed in the mitochondria of the
	olfactory bulb, hippocampus, striatum and thalamus (2). Functionally, it has been shown to
	significantly interact with tubulin (3), and may serve as a potential microtubule-associated
	protein. It has also been found to be essential for normal development of the cognitive
	functions, inactivation may lead to impaired spatial learning and working memory (4). SNCA
	fibrillar aggregates represent the major non A-beta component of Alzheimers disease amyloid
	plaque, and a major component of Lewy body inclusions, and Parkinson's disease. Parkinson's
	disease (PD) is a common neurodegenerative disorder characterized by the progressive
	accumulation in selected neurons of protein inclusions containing alpha-synuclein and ubiquitin
	(5, 6). Alpha synuclein phosphorylated at serine 129 constitutes 90 % of the alpha synuclein
	found in Lewy bodies (7, 8).
Gene ID:	6622
NCBI Accession:	NP_000336
UniProt:	P37840

 Pathways:
 Synaptic Membrane, Regulation of G-Protein Coupled Receptor Protein Signaling, Positive

 Regulation of Endopeptidase Activity, Regulation of Carbohydrate Metabolic Process, Platelet

 derived growth Factor Receptor Signaling, Negative Regulation of Transporter Activity,

 Regulation of Iong-term Neuronal Synaptic Plasticity

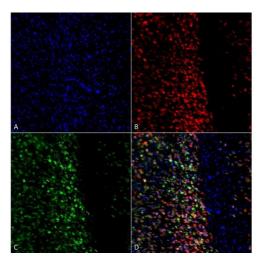
Application Details

Application Notes:	 WB (1:1000) ICC/IF (1:500) optimal dilutions for assays should be determined by the user.
Comment:	A 1:1000 dilution of ABIN5650939 was sufficient for detection of Alpha Synuclein pSer129 in 15 µg of human brain cell lysates by ECL immunoblot analysis using goat anti-rabbit IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	0.5 mg/mL

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Handling	
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C

Images



kDa MW	2	3	4
250			
150			
100		-	
75	-		
50	1	-	
37			
25	-		
20			
15	-		

Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Alpha Synuclein pSer129 Polyclonal Antibody (ABIN5650939). Tissue: Primary hippocampal neurons treated with active Alpha Synuclein Protein Aggregate (ABIN5065829) at 4 µg/mL to induce fibrils. Species: Rat. Fixation: 4 % paraformaldehyde. Primary Antibody: Rabbit Anti-Alpha Synuclein pSer129 Polyclonal Antibody (ABIN5650939) at 1:500 for 24 hours at 4 °C. Secondary Antibody: Goat Anti-Rabbit Alexa Fluor 488 at 1:700 for 1 hour at RT. Counterstain: Guinea Pig Anti-NeuN (red) neuronal marker (Donkey Anti-Guinea Pig Alexa Fluor 647 1:700), Hoechst (blue) nuclear stain at 1:6000, 1:3000 for 60 min at RT, 5 min at RT. Magnification: 20X.

Western Blotting

Image 2. Western blot analysis of Human, Mouse brain lysate showing detection of ~16 kDa Alpha Synuclein pSer129 protein using Rabbit Anti-Alpha Synuclein pSer129 Polyclonal Antibody (ABIN5650939). Lane 1: Molecular Weight Ladder (MW). Lane 2: Human brain lysate. Lane 3: Mouse brain lysate. Lane 4: Alpha Synuclein Monomer (0.5 μ g). Load: 15 μ g. Block: 2.5 % BSA in TBST. Primary Antibody: Rabbit Anti-Alpha Synuclein pSer129 Polyclonal Antibody (ABIN5650939) at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Rabbit HRP:IgG at 1:3000 for 1 hour at

RT. Color Development: ECL solution for 5 min at RT. Predicted/Observed Size: ~16 kDa. Other Band(s): 100, 75, 45, 30,16 kDa.

Immunohistochemistry

Image 3. Immunohistochemistry analysis using Rabbit Anti-Alpha Synuclein (pSer129) Polyclonal Antibody (ABIN5650939). Tissue: Free floating brain sections. Species: Mouse. Fixation: PFA. Primary Antibody: Rabbit Anti-Alpha Synuclein (pSer129) Polyclonal Antibody (ABIN5650939) at 1:500 for Overnight at 4C with gentle agitation. Counterstain: Hoechst. Magnification: 63X. A) Right hemisphere (striatum) injected with alpha synuclein AAV vector. B) Control. Alpha synuclein streaks are visible at injection site. Courtesy of: Trine Rasmussen, Simon Molgaard Jensen, Aarhus University.

Please check the product details page for more images. Overall 5 images are available for ABIN5650939.

