

Rabbit anti-Human; Mouse Alpha Synuclein Polyclonal Antibody | anti-SNCA antibody

Alpha Synuclein Antibody (pSer129): ATTO 390

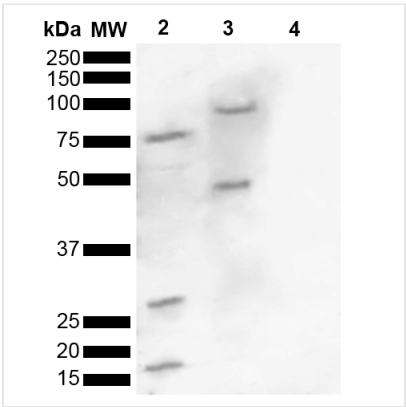
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA253860	Rabbit	Human; Mouse	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

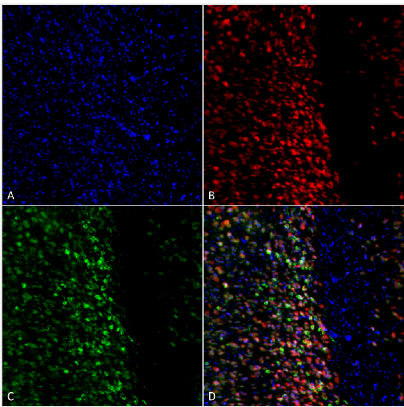
Alpha Synuclein; Polyclonal Antibody; Alpha Synuclein Antibody (pSer129): ATTO 390; Rabbit Anti-Human Alpha Synuclein pSer129 Polyclonal; Phospho anti-alpha Synuclein (S129) antibody; Alpha-synuclein (phospho S129) antibody; alpha Synuclein (phospho Ser129) antibody; alpha-Synuclein Phospho Ser129 Antibody; phospho-alpha-Synuclein (Ser129) Antibody; Alpha synuclein antibody; Alpha synuclein antibody phospho Serine 129; Alpha synuclein antibody phospho Ser 129; Alpha synuclein antibody pSerine 129; Alpha synuclein antibody pSer 129; Alpha synuclein antibody phosphoSer 129; Alpha-synuclein antibody; Alpha-synuclein; isoform NACP140 antibody; alphaSYN antibody; NACP antibody; Non A beta component of AD amyloid antibody; Non A4 component of amyloid antibody; Non A4 component of amyloid precursor antibody; Non-A beta component of AD amyloid antibody; Non-A-beta component of alzheimers disease amyloid; precursor of antibody; Non-A4 component of amyloid precursor antibody; Non-A4 component of amyloid; PARK 1 antibody; PARK 4 antibody; PARK1 antibody; PARK4 antibody; Parkinson disease (autosomal dominant; Lewy body) 4 antibody; Parkinson disease familial 1 antibody; SNCA antibody; alpha (non A4 component of amyloid precursor) antibody; SYN antibody; Synuclein alpha antibody; Synuclein alpha 140 antibody; Synuclein; SYUA_HUMAN antibody; anti-SNCA antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human; Mouse
Clonality	Polyclonal
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.
Purity/Purification	Peptide Affinity Purified
Sequence Length	140
Applicable Applications for anti-SNCA antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Target	Alpha Synuclein pSer129
Immunogen	Synthetic peptide of Human Alpha Synuclein pSer129 (40-140 aa), conjugated to Keyhole Limpet Haemocyanin (KLH).
Immunogen Species	Human
Cellular Localization	Cytoplasm; Membrane; Nucleus; Cell Junction; Synapse; Secreted
Conjugate	ATTO 390
Storage Buffer	PBS pH 7.4, 50% glycerol, 0.09% Sodium Azide
Tissue Specificity	Highly expressed in brain (presynaptic nerve terminals) but is also expressed in low concentrations in all tissues examined except in liver.
Preparation and Storage	Store at -20 degree C.



WB (Western Blot)
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 (SPC-742). Lane 1: Molecular Weight Ladder (MW). Lane 2: Human brain lysate. Lane 3: Mouse brain lysate. Lane 4: Alpha Synuclein Monomer (0.5 ug). Load: 15 ug. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Rabbit Anti-Alpha Synuclein pSer129 Polyclonal Antibody (SPC-742) 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.



ICC (Immunocytochemistry)
Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Alpha Synuclein pSer129 Polyclonal Antibody (SPC-742). Tissue: Primary hippocampal neurons treated with active Alpha Synuclein Protein Aggregate (SPR-322) at 4 ug/ml to induce fibrils. Species: Rat. Fixation: 4% paraformaldehyde. Primary Antibody: Rabbit Anti-Alpha Synuclein pSer129 Polyclonal Antibody (SPC-742) at 1:500 for 24 hours at 4 degree 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.

ADDITIONAL INFORMATION

Related Product Information for anti-SNCA antibody	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).
Product Categories/Family for anti-SNCA antibody	Antibodies; Neuroscience; Neurodegeneration; Alzheimer's Disease; Tangles & Tau; Neuroscience; Neurodegeneration; Parkinson's Disease; Synuclein
References	1. "Genetics Home Reference: SNCA". US National Library of Medicine. (2013). 2. Zhang L., et al. (2008) Brain Res. 1244: 40-52. 3. Alim M.A., et al. (2002) J Biol Chem. 277(3): 2112-2117. 4. Kokhan V.S., Afanasyeva M.A., Van'kin G. (2012) Behav. Brain. Res. 231(1): 226-230. 5. Spillantini M.G., et al. (1997) Nature. 388(6645): 839-840. 6. Mezey E., et al. (1998) Nat Med. 4(7): 755-757. 7. Fujiwara H., et al. (2002) Nat Cell Biol. 4(2):160-4. 8. Anderson J.P., et al. (2006) J Biol Chem. 281(40):29739-52.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507109
NCBI GeneID	6622
NCBI Accession #	NP_000336.1
NCBI GenBank Nucleotide #	NM_000345.3
UniProt Accession #	P37840; Q13701; Q4JHI3; Q6IAU6; A8K2A4
Molecular Weight	13,109 Da
NCBI Official Full Name	alpha-synuclein isoform NACP140

NCBI Official Synonym Full Names	synuclein alpha
NCBI Official Symbol	SNCA
NCBI Official Synonym Symbols	PD1; NACP; PARK1; PARK4
NCBI Protein Information	alpha-synuclein
UniProt Protein Name	Alpha-synuclein
UniProt Gene Name	SNCA
UniProt Synonym Gene Names	NACP; PARK1; NACP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/alpha-synuclein-antibody-immunohistochemistry-western-blot-elisa/253860>