

Phospho-alpha Synuclein (S129) Antibody Rabbit mAb Catalog # AP90365

Specification

Phospho-alpha Synuclein (S129) Antibody - Product Information

ApplicationWB, ICCPrimary AccessionP37840ReactivityRatClonalityMonoclonalOther NamesOther NamesNACP; Non-A beta component of AD amyloid; Non-A4 component of amyloid precursor; SYN; SYUA;
alpha-synuclein; PARK1; PARK4; PD1; SNCA;

Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	14460 Da

Phospho-alpha Synuclein (S129) Antibody - Additional Information

Dilution	WB~~1:1000
Purification	ICC~~N/A Affinity-chromatography
Immunogen	A synthesized peptide derived from human Phospho-alpha Synuclein (S129)
Description	Alpha-synuclein is a member of the synuclein family, which also includes beta- and gamma-synuclein. Synucleins are abundantly expressed in the brain and alpha- and beta-synuclein inhibit
Storage Condition and Buffer	phospholipase D2 selectively. Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Phospho-alpha Synuclein (S129) Antibody - Protein Information

Name SNCA

Synonyms NACP, PARK1

Function



href="http://www.uniprot.org/citations/30404828" target=" blank">30404828). Participates as a monomer in synaptic vesicle exocytosis by enhancing vesicle priming, fusion and dilation of exocytotic fusion pores (PubMed:28288128, PubMed:30404828). Mechanistically, acts by increasing local Ca(2+) release from microdomains which is essential for the enhancement of ATP-induced exocytosis (PubMed:30404828). Also acts as a molecular chaperone in its multimeric membrane-bound state, assisting in the folding of synaptic fusion components called SNAREs (Soluble NSF Attachment Protein REceptors) at presynaptic plasma membrane in conjunction with cysteine string protein-alpha/DNAJC5 (PubMed:20798282). This chaperone activity is important to sustain normal SNARE-complex assembly during aging (PubMed:20798282). Also plays a role in the regulation of the dopamine neurotransmission by associating with the dopamine transporter (DAT1) and thereby modulating its activity (PubMed:26442590).

Cellular Location

Cytoplasm. Membrane Nucleus Synapse. Secreted. Cell projection, axon {ECO:000250|UniProtKB:O55042}. Note=Membrane-bound in dopaminergic neurons (PubMed:15282274). Expressed and colocalized with SEPTIN4 in dopaminergic axon terminals, especially at the varicosities (By similarity). {ECO:0000250|UniProtKB:O55042, ECO:0000269|PubMed:15282274}

Tissue Location

Highly expressed in presynaptic terminals in the central nervous system. Expressed principally in brain

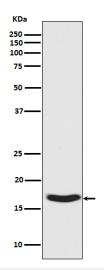
Phospho-alpha Synuclein (S129) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Phospho-alpha Synuclein (S129) Antibody - Images





Western blot analysis of Synuclein phosphorylation expression in Human fetal brain lysate.