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Anti-Alpha-synuclein (pY136) Antibody

Rabbit polyclonal antibody to Alpha-synuclein (pY136)
Catalog # AP61177

Specification

Anti-Alpha-synuclein (pY136) Antibody - Product Information

Application	**WB**
Primary Accession	P37840
Other Accession	O55042
Reactivity	**Human, Mouse, Rat, Monkey, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**14460**

Anti-Alpha-synuclein (pY136) Antibody - Additional Information

Gene ID 6622

Other Names
NACP; PARK1; Alpha-synuclein; Non-A beta component of AD amyloid; Non-A4 component of amyloid precursor; NACP

Target/Specificity
Recognizes endogenous levels of Alpha-synuclein (pY136) protein.

Dilution
WB~~WB (1/500 - 1/1000)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-Alpha-synuclein (pY136) Antibody - Protein Information

Name SNCA

Synonyms NACP, PARK1

Function
Neuronal protein that plays several roles in synaptic activity such as regulation of synaptic vesicle trafficking and subsequent neurotransmitter release (PubMed:20798282, PubMed:26442590, PubMed:28288128, PubMed: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). Acts also 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:0000250|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

Anti-Alpha-synuclein (pY136) Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Alpha-synuclein (pY136) Antibody - Images

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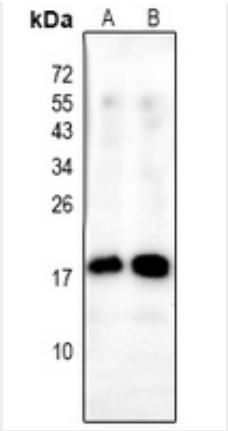

Western blot analysis of Alpha-synuclein (pY136) expression in mouse brain (A), rat brain (B) whole cell lysates.

Anti-Alpha-synuclein (pY136) Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Alpha-synuclein (pY136). The exact sequence is proprietary.