Best Tools for immunology Research

# Synuclein-α (phospho Tyr136) Polyclonal Antibody

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| **Catalog No :** | YP0521 |
| **Reactivity :** | Human;Mouse;Rat |
| **Applications :** | WB;ELISA |
| **Target :** | Synuclein-α |
| **Fields :** | >>Alzheimer disease;>>Parkinson disease;>>Pathways of neurodegeneration - multiple diseases |
| **Gene Name :** | SNCA |
| **Protein Name :** | Alpha-synuclein |
| **Human Gene Id :** | 6622 |
| **Human Swiss Prot No :** | P37840 |
| **Mouse Gene Id :** | 20617 |
| **Mouse Swiss Prot No :** | O55042 |
| **Rat Gene Id :** | 29219 |
| **Rat Swiss Prot No :** | P37377 |
| **Immunogen :** | The antiserum was produced against synthesized peptide derived from human Synuclein-alpha around the phosphorylation site of Tyr136. AA range:91-140 |
| **Specificity :** | Phospho-Synuclein-α (Y136) Polyclonal Antibody detects endogenous levels of Synuclein-α protein only when phosphorylated at Y136. |
| **Formulation :** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source :** | Polyclonal, Rabbit,IgG |
| **Dilution :** | WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications. |

**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Concentration :** 1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 15kD

**Cell Pathway :** Alzheimer's disease;Parkinson's disease;

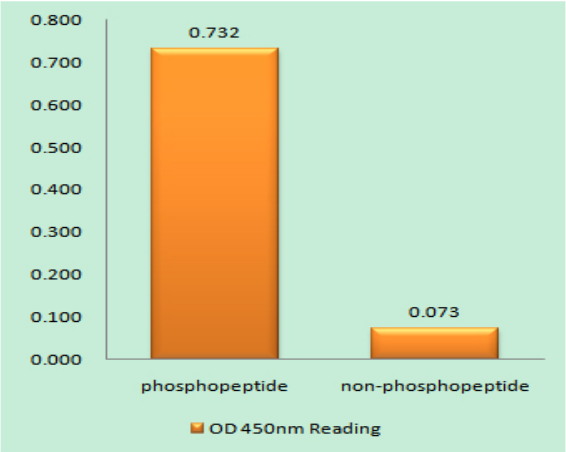
**Background :** Alpha-synuclein is a member of the synuclein family, which also includes beta- and gamma-synuclein. Synucleins are abundantly expressed in the brain and alpha- and beta-synuclein inhibit phospholipase D2 selectively. SNCA may serve to integrate presynaptic signaling and membrane trafficking. Defects in SNCA have been implicated in the pathogenesis of Parkinson disease. SNCA peptides are a major component of amyloid plaques in the brains of patients with Alzheimer's disease. Alternatively spliced transcripts encoding different isoforms have been identified for this gene. [provided by RefSeq, Feb 2016],

**Function :** alternative products:Additional isoforms seem to exist,disease:Brain iron accumulation type 1 (NBIA1, also called Hallervorden-Spatz syndrome), a rare neuroaxonal dystrophy, is histologically characterized by axonal spheroids, iron deposition, Lewy body (LB)-like intraneuronal inclusions, glial inclusions and neurofibrillary tangles. SNCA is found in LB-like inclusions, glial inclusions and spheroids.,disease:Defects in SNCA are a cause of autosomal dominant Parkinson disease 1 (PARK1) [MIM:168601, 168600]. Parkinson disease (PD) is a complex, multifactorial disorder that typically manifests after the age of 50 years, although early-onset cases (before 50 years) are known. PD generally arises as a sporadic condition but is occasionally inherited as a simple mendelian trait. Although sporadic and familial PD are very similar, inherited forms of the disease usually begin at earlier ages an

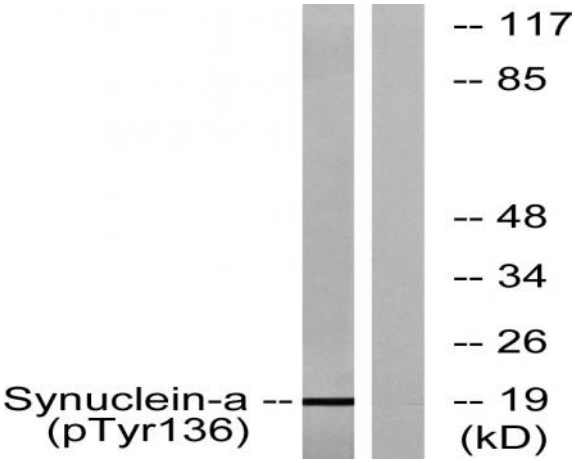
**Subcellular Location :** Cytoplasm . Membrane . Nucleus . Cell junction, synapse . Secreted . Cell projection, axon . Membrane-bound in dopaminergic neurons (PubMed:15282274). Expressed and colocalized with SEPTIN4 in dopaminergic axon terminals, especially at the varicosities (By similarity). .

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

## Products Images




Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Synuclein-alpha (Phospho-Tyr136) Antibody




Western blot analysis of lysates from mouse brain, using Synuclein-alpha (Phospho-Tyr136) Antibody. The lane on the right is blocked with the phospho peptide.