

## Synuclein- $\alpha$ (phospho Tyr125) Polyclonal Antibody

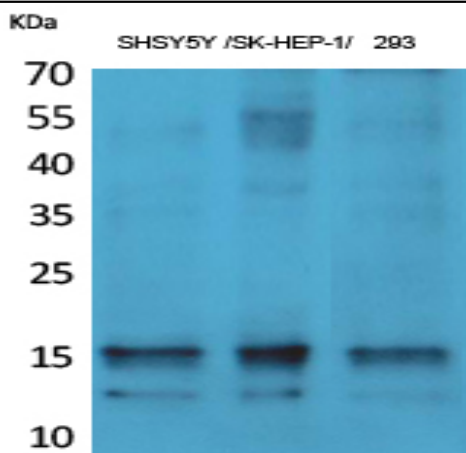
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| <b>Catalog No :</b>          | YP1124   |
| <b>Reactivity :</b>          | Human;Mouse;Rat  |
| <b>Applications :</b>        | WB;IHC;IF;ELISA  |
| <b>Target :</b>              | Synuclein- $\alpha$  |
| <b>Fields :</b>              | >>Alzheimer disease;>>Parkinson disease;>>Pathways of neurodegeneration - multiple diseases  |
| <b>Gene Name :</b>           | SNCA   |
| <b>Protein Name :</b>        | Alpha-synuclein  |
| <b>Human Gene Id :</b>       | 6622   |
| <b>Human Swiss Prot No :</b> | P37840   |
| <b>Mouse Gene Id :</b>       | 20617  |
| <b>Mouse Swiss Prot No :</b> | O55042   |
| <b>Rat Gene Id :</b>         | 29219  |
| <b>Rat Swiss Prot No :</b>   | P37377   |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human Synuclein-alpha around the phosphorylation site of Tyr125. AA range:91-140 |
| <b>Specificity :</b>         | Phospho-Synuclein- $\alpha$ (Y125) Polyclonal Antibody detects endogenous levels of Synuclein- $\alpha$ protein only when phosphorylated at Y125.    |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG   |
| <b>Dilution :</b>            | WB 1:500-2000 ,IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200   |

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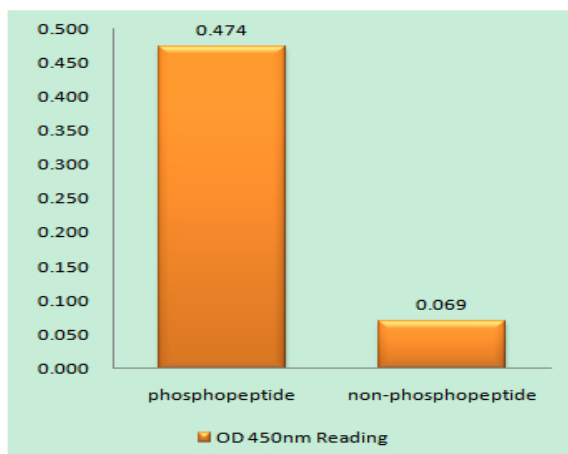
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| <b>Purification :</b>         | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  |
| <b>Concentration :</b>        | 1 mg/ml  |
| <b>Storage Stability :</b>    | -15°C to -25°C/1 year(Do not lower than -25°C)   |
| <b>Molecularweight :</b>      | 14kD   |
| <b>Cell Pathway :</b>         | Alzheimer's disease;Parkinson's disease;   |
| <b>Background :</b>           | 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],   |
| <b>Function :</b>             | 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 |
| <b>Subcellular Location :</b> | 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). .  |
| <b>Expression :</b>           | Highly expressed in presynaptic terminals in the central nervous system. Expressed principally in brain.   |

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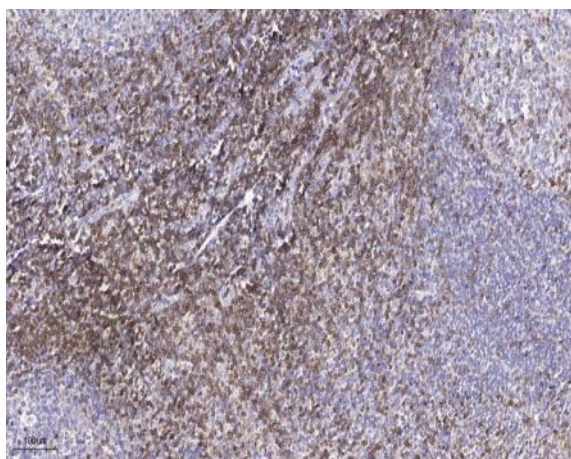
## Products Images



Western Blot analysis of various cells using Phospho-Synuclein- $\alpha$  (Y125) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Synuclein-alpha (Phospho-Tyr125) Antibody



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Tris-EDTA, pH 9.0 was used for antigen retrieval. 2 Antibody was diluted at 1:200 (4 $^{\circ}$  overnight). 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).