

# α-Synuclein Rabbit mAb

Catalog No.: A24950 **Recombinant**

## Basic Information

### Observed MW

18kDa/

### Calculated MW

14kDa

### Category

Primary antibody

### Applications

ELISA,WB,IHC-P,IF/ICC,IP

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC64511

## 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.

## Recommended Dilutions

<b>WB</b>	1:500 - 1:1000
<b>IHC-P</b>	1:50 - 1:200
<b>IF/ICC</b>	1:50 - 1:200
<b>IP</b>	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells

## Contact

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## Immunogen Information

### Gene ID

6622

### Swiss Prot

P37840

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-140 of human α-Synuclein(NP\_000336.1).

### Synonyms

PD1; NACP; PARK1; PARK4; α-Synuclein

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

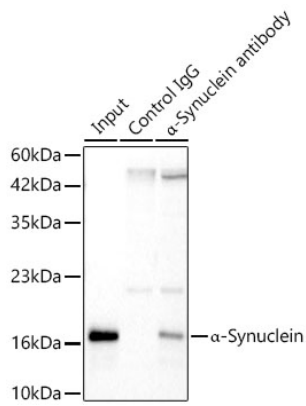
Affinity purification

### Storage

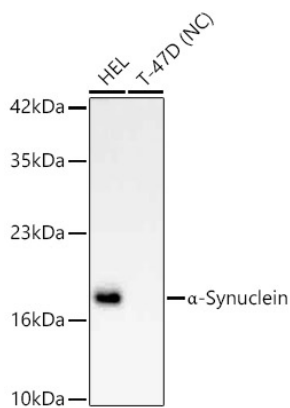
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

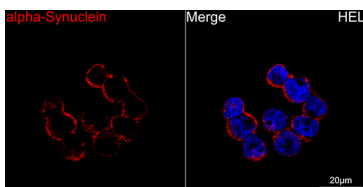
## Validation Data



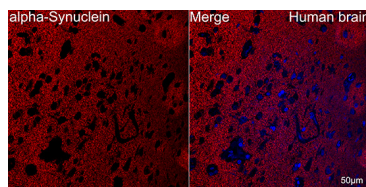
Immunoprecipitation of  $\alpha$ -Synuclein in 500  $\mu$ g extracts from HEL cells using 2  $\mu$ g  $\alpha$ -Synuclein Rabbit mAb (A24950). Western blot analysis was performed using  $\alpha$ -Synuclein Rabbit mAb (A24951) at 1:3000 dilution.



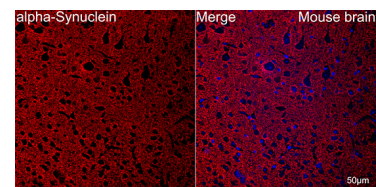
Western blot analysis of various lysates using  $\alpha$ -Synuclein Rabbit mAb (A24950) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Negative control (NC): T-47D. Exposure time: 90s.



Confocal imaging of HEL cells using  $\alpha$ -Synuclein Rabbit mAb (A24950, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



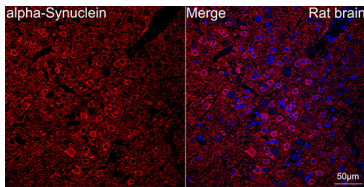
Confocal imaging of paraffin-embedded human brain using  $\alpha$ -Synuclein Rabbit mAb (A24950, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01M citrate buffer (pH 6.0) prior to IF staining.



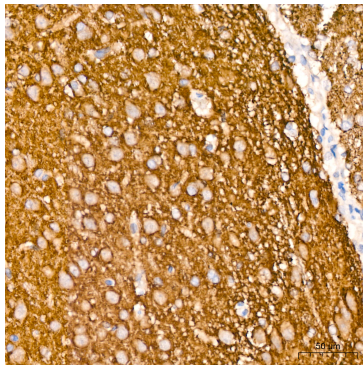
Confocal imaging of paraffin-embedded mouse brain using  $\alpha$ -Synuclein Rabbit mAb (A24950, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01M citrate buffer (pH 6.0) prior to IF staining.

## Validation Data

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Confocal imaging of paraffin-embedded rat brain using  $\alpha$ -Synuclein Rabbit mAb (A24950, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval with 0.01M citrate buffer (pH 6.0) prior to IF staining.



Immunohistochemistry analysis of  $\alpha$ -Synuclein in paraffin-embedded rat brain tissue using  $\alpha$ -Synuclein Rabbit mAb (A24950) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.