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α-Synuclein Rabbit mAb

Catalog No.: A24951   **Recombinant**

Basic Information

Observed MW
18KDa

Calculated MW
14kDa

Category
Primary antibody

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

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC64510

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

WB	1:3500 - 1:7000
IP	0.5 μg - 4 μg antibody for 200 μg - 800μg extracts of whole cells
IF/ICC	1:200 - 1:800
IF-P	1:200 - 1:800
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
6622

Swiss Prot
P37840

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
PD1; NACP; PARK1; PARK4; α-Synuclein

Product Information

Source	**Isotype**	**Purification**
Rabbit	IgG	Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.
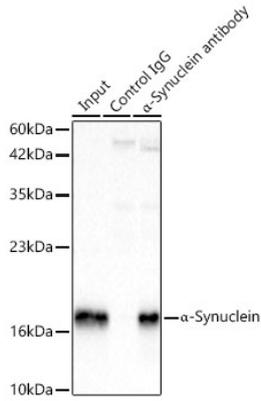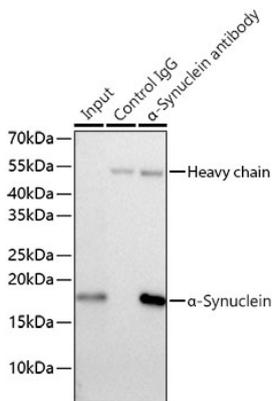
Contact

# Validation Data

Immunoprecipitation of α-Synuclein in 600 μg extracts from Mouse brain using 3 μg α-Synuclein Rabbit mAb (A24951). Western blot analysis was performed using α-Synuclein Rabbit mAb (A24951) at 1:1000 dilution.


Immunoprecipitation of α-Synuclein from 300 μg extracts of HEL cells was performed using 1 μg of α-Synuclein Rabbit mAb (A24951). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using α-Synuclein Rabbit mAb (A24951) at a dilution of 1:2000.
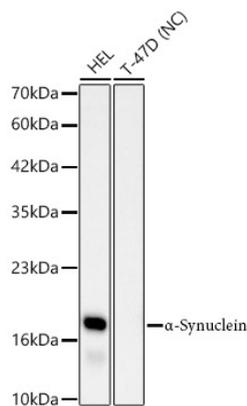

Western blot analysis of various lysates using α-Synuclein Rabbit mAb (A24951) at 1:7000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
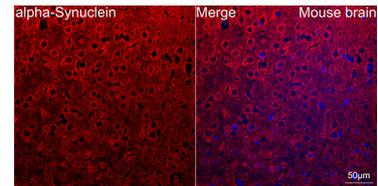Negative control (NC): T-47D
Exposure time: 90s.

Validation Data
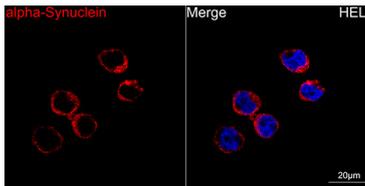
Confocal imaging of HEL cells using α-Synuclein Rabbit mAb (A24951, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.
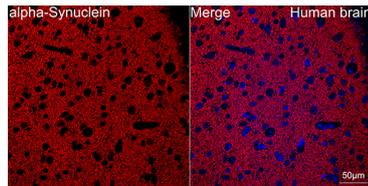
Confocal imaging of paraffin-embedded human brain using α-Synuclein Rabbit mAb (A24951, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x.Perform high pressure antigen retrieval with 0.01M citrate buffer (pH 6.0) prior to IF staining.

Confocal imaging of paraffin-embedded mouse brain using α-Synuclein Rabbit mAb (A24951, 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.