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#4179

## $\alpha$ -Synuclein (D37A6) Rabbit mAb

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IP, IF-F	<b>Reactivity:</b> M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 18	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O55042	<b>Entrez-Gene Id:</b> 20617
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### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation  
Immunofluorescence (Frozen)

#### Dilution

1:1000  
1:50  
1:100 - 1:400

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100  $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at  $-20^{\circ}\text{C}$ . Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #69973.

### Specificity/Sensitivity

$\alpha$ -Synuclein (D37A6) Rabbit mAb detects endogenous levels of the  $\alpha$  isoform of synuclein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Glu105 of mouse  $\alpha$ -synuclein protein.

### Background

$\alpha$ -Synuclein is a protein of 140-amino acids expressed abundantly in the brain.  $\alpha$ -Synuclein is also the main component of pathogenic Lewy bodies and Lewy neurites. Research studies have shown that mutations of the  $\alpha$ -Synuclein gene are linked to Parkinson's disease (1).

### Background References

1. Goldberg, M.S. and Lansbury Jr., P.T. (2000) *Nat. Cell Biol.* 2, 115-119.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at  $4^{\circ}\text{C}$  with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting **IP:** Immunoprecipitation **IF-F:** Immunofluorescence (Frozen)

### Cross-Reactivity Key

**M:** Mouse **R:** Rat

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