

## Rabbit Anti-SNCA Polyclonal Antibody

CPB-810RH Rabbit(SNCA)

Lot. No. (See product label)

### PRODUCT INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Product Overview</b>    | Rabbit Anti-SNCA Polyclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Antigen Description</b> | May be involved in the regulation of dopamine release and transport. Soluble protein, normally localized primarily at the presynaptic region of axons, which can form filamentous aggregates that are the major non amyloid component of intracellular inclusions in several neurodegenerative diseases (synucleinopathies). Induces fibrillization of microtubule-associated protein tau. Reduces neuronal responsiveness to various apoptotic stimuli, leading to a decreased caspase-3 activation. |
| <b>specificity</b>         | The antibody detects endogenous level of SNCA only when phosphorylated at tyrosine 136.                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Target</b>              | SNCA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Immunogen</b>           | Peptide sequence around phosphorylation site of tyrosine 136 (Q-D-Y(p)-E-P) derived from Human SNCA.                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host</b>                | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Cross Reactivity</b>    | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>conjugation</b>         | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Applications</b>        | IFA, WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

### PACKAGING

|                |                                                                                                                                                              |
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| <b>Format</b>  | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| <b>Storage</b> | Store at -20°C/ 1year                                                                                                                                        |

### ANTIGEN GENE INFORMATION

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | <a href="#">SNCA synuclein, alpha (non A4 component of amyloid precursor) [ Homo sapiens ]</a>                                                                                                                                                                    |
| <b>Official Symbol</b>     | SNCA                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>            | SNCA; synuclein, alpha (non A4 component of amyloid precursor); PARK1, PARK4, Parkinson disease (autosomal dominant, Lewy body) 4; alpha-synuclein; alpha synuclein; NACP; PD1; synuclein alpha-140; non A-beta component of AD amyloid; PARK1; PARK4; MGC110988; |
| <b>GeneID</b>              | <a href="#">6622</a>                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>         | <a href="#">NM_000345</a>                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>      | <a href="#">NP_000336</a>                                                                                                                                                                                                                                         |
| <b>MIM</b>                 | <a href="#">163890</a>                                                                                                                                                                                                                                            |
| <b>UniProt ID</b>          | P37840                                                                                                                                                                                                                                                            |
| <b>Chromosome Location</b> | 4q21.3-q22                                                                                                                                                                                                                                                        |

**Pathway**

Alpha-synuclein signaling, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Amyloids, organism-specific biosystem; Disease, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem; Parkinsons disease, organism-specific biosystem;

**Function**

Hsp70 protein binding; alpha-tubulin binding; arachidonic acid binding; calcium ion binding; copper ion binding; cysteine-type endopeptidase inhibitor activity involved in apoptotic process; dynein binding; NOT fatty acid binding; ferrous iron binding; histone binding; identical protein binding; kinesin binding; magnesium ion binding; oxidoreductase activity; NOT phospholipase D inhibitor activity; phosphoprotein binding; protein binding; tau protein binding; zinc ion binding;