

## Rabbit Synuclein-alpha Polyclonal Antibody | anti-SNCA antibody

Synuclein-alpha Polyclonal Antibody

|                               |                       |                                        |                                                           |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA296453</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|

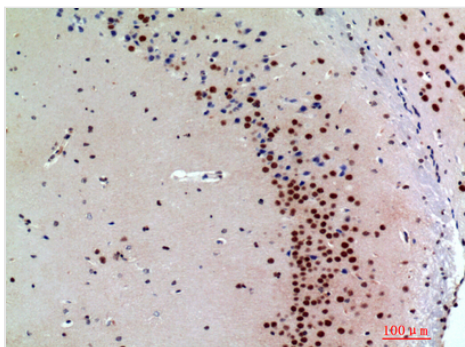
### PRODUCT SYNONYMS

Synuclein-alpha; Polyclonal Antibody; Synuclein-alpha Polyclonal Antibody; SNCA; NACP; PARK1; Alpha-synuclein; Non-A beta component of AD amyloid; Non-A4 component of amyloid precursor; anti-SNCA antibody

### PRODUCT SPECIFICATIONS

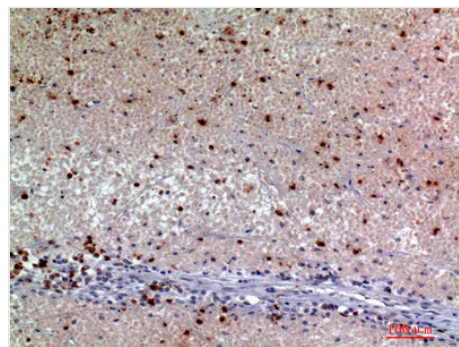
|                                                |                                                                                                                                                       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                     |
| Clonality                                      | Polyclonal                                                                                                                                            |
| Applicable Applications for anti-SNCA antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                         |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

### IMAGES



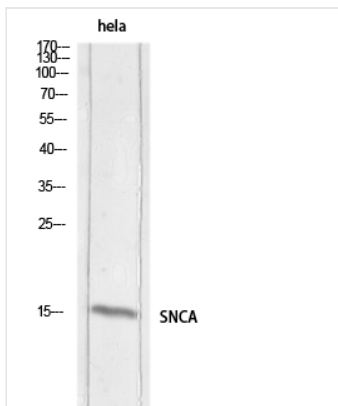
IHC (Immunohistochemisry)

Dilution: Western Blot: 1/500 - 1/2000. IHC-p: 1:100-1:300. ELISA: 1/10000. Not yet tested in other applications.



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Dilution: Western Blot: 1/500 - 1/2000. IHC-p: 1:100-1:300. ELISA: 1/10000. Not yet tested in other applications.



#### WB (Western Blot)

Dilution: Western Blot: 1/500 - 1/2000. IHC-p: 1:100-1:300. ELISA: 1/10000. Not yet tested in other applications.

### ADDITIONAL INFORMATION

#### Related Product Information for anti-SNCA antibody

Neuronal protein that plays several roles in synaptic activity such as regulation of synaptic vesicle trafficking and subsequent neurotransmitter release. Participates as a monomer in synaptic vesicle exocytosis by enhancing vesicle priming, fusion and dilation of exocytotic fusion pores (PubMed:30404828). Mechanistically, acts by increasing local  $Ca^{2+}$  release from microdomains which is essential for the enhancement of ATP-induced exocytosis (PubMed:30404828). Acts also as a molecular chaperone in its multimeric membrane-bound state, assisting in the folding of synaptic fusion components called SNAREs (Soluble NSF Attachment Protein REceptors) at presynaptic plasma membrane in conjunction with cysteine string protein-  $\alpha$ /DNAJC5 (PubMed:20798282). This chaperone activity is important to sustain normal SNARE-complex assembly during aging (PubMed:20798282). Plays also a role in the regulation of the dopamine neurotransmission by associating with the dopamine transporter (DAT1) and thereby modulating its activity (PubMed:26442590).

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">4507109</a>                                                                                                    |
| NCBI GeneID                      | <a href="#">6622</a>                                                                                                       |
| NCBI Accession #                 | <a href="#">NP_000336.1</a>                                                                                                |
| NCBI GenBank Nucleotide #        | <a href="#">NM_000345.3</a>                                                                                                |
| UniProt Accession #              | <a href="#">P37840</a> ; <a href="#">Q13701</a> ; <a href="#">Q4JHI3</a> ; <a href="#">Q6IAU6</a> ; <a href="#">A8K2A4</a> |
| Molecular Weight                 | 14,460 Da                                                                                                                  |
| NCBI Official Full Name          | alpha-synuclein isoform NACP140                                                                                            |
| NCBI Official Synonym Full Names | synuclein, alpha (non A4 component of amyloid precursor)                                                                   |
| NCBI Official Symbol             | SNCA                                                                                                                       |
| NCBI Official Synonym Symbols    | PD1; NACP; PARK1; PARK4                                                                                                    |
| NCBI Protein Information         | alpha-synuclein; synuclein alpha-140; non A-beta component of AD amyloid                                                   |
| UniProt Protein Name             | Alpha-synuclein                                                                                                            |
| UniProt Gene Name                | <b>SNCA</b>                                                                                                                |
| UniProt Synonym Gene Names       | NACP; PARK1; NACP                                                                                                          |
| UniProt Entry Name               | SYUA_HUMAN                                                                                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

