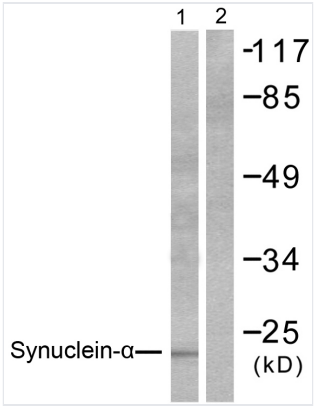
# Synuclein-Alpha (SYN) Antibody

## PRODUCT OVERVIEW

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| **Product Name** | Synuclein-alpha, Antibody |
| **Full Product Name** | Synuclein-alpha (Ab-133) Antibody |
| **Product Gene Name** | anti-SYN antibody |
| **Product Synonym Names** | NACP; Non-A beta component of AD amyloid; Non-A4 component of amyloid precursor; SYUA; alpha-synuclein; synuclein alpha |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Purity/Purification** | Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Specificity** | alpha-Synuclein (Ab-133) antibody detects endogenous levels of total alpha-Synuclein protein. |
| **Preparation and Storage** | Store at-20 degree C for 1 year |
| **Molecular Weight** | 13,109 Da |
| **OMIM** | 127750 |
| **3D Structure** | ModBase 3D Structure for P37840 |
| **Immunogen** | The antiserum was produced against synthesized non-phosphopeptide derived from human alpha-Synuclein around the phosphorylation site of tyrosine 133 (E-G-Y-Q-D). |
| **Product Categories/Family for anti-SYN antibody** | Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-SYN antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-SYN antibody** | WB: 1:500~1:1000<br>ELISA: 1:20000 |
| **Related Product Information for anti-SYN antibody** | MBS859244 is an antibody targeting SYN. Also known as Synuclein-alpha (Ab-133) Antibody. Reactive in Human, Mouse, Rat. |
| **Product References and Citations for anti-SYN antibody** | Yangfu Jiang, Cancer Res., Jul 2004; 64: 4539-4546. Alessandro Negro, FASEB J, Dec 2001; 10.1096. ALESSANDRA RECCHIA, FASEB J, Apr 2004; 18: 617-626. Christopher E. Ellis, J. Biol. Chem., Feb 2001; 276: 3879-3884. |
| **Other Notes** | Small volumes of anti-SYN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-SYN antibody**
Western blot analysis of extracts from 293 cells, treated with Etoposide (25muM, 60mins), using alpha-Synuclein (Ab-133) antibody.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SYN. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4507109 |
| **NCBI GeneID** | 6622 |
| **NCBI Accession #** | NP_000336.1 |
| **UniProt Primary Accession #** | P37840 |
| **UniProt Secondary Accession #** | Q13701; Q4JHI3; Q6IAU6; A8K2A4 |
| **UniProt Related Accession #** | P37840 |
| **GenBank Nucleotide #** | NM_000345.3 |
| **NCBI Official Full Name** | alpha-synuclein isoform NACP140 |
| **NCBI Official Synonym Full Names** | synuclein alpha |
| **NCBI Official Symbol** | SNCA |
| **NCBI Official Synonym Symbols** | PD1; NACP; PARK1; PARK4 |
| **UniProt Protein Name** | Alpha-synuclein |
| **UniProt Synonym Protein Names** | Non-A beta component of AD amyloid; Non-A4 component of amyloid precursor; NACP |
| **Protein Family** | Synapsin |
| **UniProt Gene Name** | SNCA |
| **UniProt Synonym Gene Names** | NACP; PARK1; NACP |
| **NCBI Protein Information** | alpha-synuclein |
| **NCBI Summary for SYN** | 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. [provided by RefSeq, Feb 2016] |
| **UniProt Comments for SYN** | May be involved in the regulation of dopamine release and transport. Induces fibrillization of microtubule-associated protein tau. Reduces neuronal responsiveness to various apoptotic stimuli, leading to a decreased caspase-3 activation. |

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| **Research Articles on SYN** | **1.** The results are the first demonstration that post-translational modification of alpha-Syn can induce different strain formation, offering a new mechanism for strain formation. |
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