Mouse monoclonal antibody to Human SNCA.

CABT-26489MH    Mouse(SNCA)
Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview
Mouse monoclonal antibody to Human SNCA.

Antigen Description
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. Four alternatively spliced transcripts encoding two different isoforms have been identified for this gene.

Specificity
This antibody recognizes native alpha synuclein and nitrated/oxidized alpha synuclein. The antibody also shows some cross-reactivity with beta and gamma synucleins.

Target
SNCA

Immunogen
Full length protein (Human): oxidized alpha synuclein.

Host
Mouse

Isotype
IgG

Species
Human

Clone
Tzo625

Purification
Ascites

Applications
IHC-P, WB

Sequence similarities
Belongs to the synuclein family.

Cellular localization

Domain
The non A-beta component of Alzheimer disease amyloid plaque domain (NAC domain) is involved in fibrils formation. The middle hydrophobic region forms the core of the filaments. The C-terminus may regulate aggregation and determine the diameter of the filaments.

PACKAGING

Format
Liquid

Concentration
3.000 mg/ml

Buffer
Preservative: None. Constituents: Ascites.

Storage
Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

ANTIGEN GENE INFORMATION

Gene Name
SNCA synuclein, alpha (non A4 component of amyloid precursor) [ Homo sapiens ]

Official Symbol
SNCA
| **Synonyms** | SNCA; synuclein, alpha (non A4 component of amyloid precursor); PARK1, PARK4; Parkinson disease (autosomal dominant, Lewy body) 4; alpha-synuclein; alpha synuclein; NACP; PD1; Alpha synuclein; Alpha-synuclein; Alpha-synuclein, isoform NACP140; alphaSYN; MGC105443; MGC110988; MGC127560; MGC64356; NACP; Non A beta component of AD amyloid; Non A4 component of amyloid; Non A4 component of amyloid precursor; Non-A beta component of AD amyloid; Non-A-beta component of alzheimers disease amyloid , precursor of; Non-A4 component of amyloid precursor; OTTHUMP0000218549; OTTHUMP0000218551; OTTHUMP0000218552; OTTHUMP00000218553; OTTHUMP0000218554; PARK 1; PARK 4; PARK1; PARK4; Parkinson disease (autosomal dominant, Lewy body) 4; Parkinson disease familial 1; PD 1; PD1; SNCA; Snca synuclein, alpha (non A4 component of amyloid precursor); Synuclein alpha; Synuclein, alpha (non A4 component of amyloid precursor); SYUA_HUMAN; OTTHUMP00000161559; OTTHUMP00000161560; OTTHUMP00000161561; OTTHUMP00000218549; OTTHUMP00000218550; OTTHUMP00000218551; OTTHUMP00000218552; OTTHUMP00000218553; synuclein alpha-140; alpha-synuclein, isoform NACP140; non A-beta component of AD amyloid; PARK1; PARK4; |
| **GeneID** | 6622 |
| **mRNA Refseq** | NM_000345 |
| **Protein Refseq** | NP_000336 |
| **MIM** | 163890 |
| **UniProt ID** | P37840 |
| **Chromosome Location** | 4q21.3-q22 |
| **Pathway** | Alpha-synuclein signaling, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Amyloids, 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; cysteine-type endopeptidase inhibitor activity involved in apoptotic process; dynein binding; NOT fatty acid binding; ferrous iron binding; histone binding; ident |

**REFERENCES**