Rat anti-Human alpha-Synuclein Monoclonal Antibody | anti-SNCA antibody

alpha-Synuclein (human) monoclonal antibody (15G7)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77039	**Rat**	**Human**	**Western Blot, Immunoprecipitation, Immunohistochemistry, Immunohistochemistry**

PRODUCT SYNONYMS

alpha-Synuclein; Monoclonal Antibody; alpha-Synuclein (human) monoclonal antibody (15G7); anti-SNCA antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	15G7
Form/Format	Liquid. Hybridoma supernatant containing 0.05% sodium azide
Applicable Applications for anti-SNCA antibody	WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), IHC (Immunohistochemistry)
Immunogen	Synthetic peptide corresponding to aa 116-131 of human alpha-synuclein
Cross Reactivity	Does not cross-react with mouse alpha-synuclein or recombinant beta- or gamma-synuclein
Preparation and Storage	Store at 4 degree C for short term. Store at -20 degree C for long term. Aliquot diluted antibody into smaller volumes prior to freezing. Avoid freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for anti-SNCA antibody	Synuclein was originally identified in Torpedo californica as a small neuroprotein that localized to the nuclear envelope of neurons and to presynaptic nerve termini. The human homolog was initially termed NACP, a precursor protein to NAC (Non-Ab Component), because of its prevalence in amyloid plaques in Alzheimer's patients. Later, NACP was recognized as being alpha-synuclein (alpha-SYN), a 14kDa protein, belonging to the synuclein family of phosphoproteins that also includes: beta-synuclein, gamma-synuclein, and synoretin. alpha-SYN is recognized as a key component in the development and resultof neurodegenerative synucleinopathic diseases (NSDs), such as Alzheimer's and Parkinson's disease. In the past five years, several genetic and post-translational modifications to alpha-SYN have been elucidated that have been linked to its collaboration in the formation of the classical Lewy bodies (LBs) or Lewy neurites that are associated with neurodegeneration. A study that shed more light on the neurogenesis of autorecessive synucleinopathies (ARSs) was the finding that alpha-SYN accumulation can occur due to mutations in the E3 ubiquitin ligase. ARSs only account for a small percentage of NSD. Thus the illustration that alpha-SYN has a high susceptibility to tyrosine nitration may be the key component in understanding the formation of LBs. Due to the chemical structure of alpha-SYN, tyrosine nitration readily leads to the formation of oligomers via covalent O,O'-dityrosine bonds (cross-linking). Nitrosylated, wild-type, alpha-SYN products thus form SDS-insoluble, heat-stable aggregates in vitro that may account for alpha-SYN inclusions in all forms of NSDs.
Product Categories/Family for anti-SNCA antibody	Proteostasis; Protein Synthesis & Folding

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507109
NCBI GeneID	6622
NCBI Accession #	NP_000336.1
NCBI GenBank Nucleotide #	NM_000345.3
UniProt Accession #	P37840; Q13701; Q4JHI3; Q6IAU6; A8K2A4
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	**SNCA**
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.

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