

Mouse Alpha Synuclein Monoclonal Antibody | anti-SNCA antibody

Anti-Mouse Alpha Synuclein Mouse Monoclonal Antibody

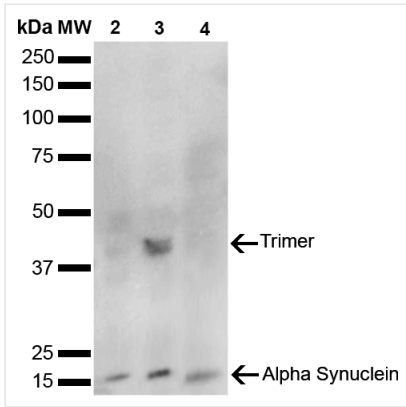
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA47971	Mouse	Human, Mouse, Rat	ELISA, Immunofluorescence, Immunocytochemistry, Dot Blot, Western Blot

PRODUCT SYNONYMS

Alpha Synuclein; Monoclonal Antibody; Anti-Mouse Alpha Synuclein Mouse Monoclonal Antibody; Non-A beta component of AD amyloid; Non-A4 component of amyloid precursor; NACP; SNCA; PARK1; PARK 1; alphaSYN; PARK 4; PARK4; Parkinson disease familial 1; Parkinson disease (autosomal dominant; Lewy body) 4; SYN; anti-SNCA antibody

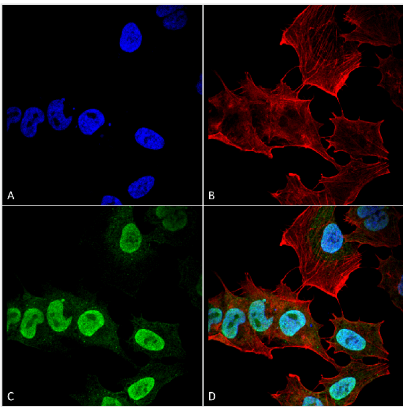
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG1
Clone Number	10H7
Specificity	Alpha Synuclein Binds within the 101-130 aa region of human alpha synuclein,determined using Dot blot and ELISA with corresponding peptides. Detects ~14 kDa band corresponding to Alpha synuclein. Band at ~40 kDa is a trimer. Does not detect truncated alpha Synuclein (aa 1-114)
Purity/Purification	Protein G Purified
Form/Format	Liquid; purified; PBS pH7.4,50% glycerol,0.09% Sodium azide
Concentration	1mg/mL (varies by lot)
Applicable Applications for anti-SNCA antibody	ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), DB (Dot Blot), WB (Western Blot)
Immunogen	Mouse alpha synuclein aggregate
Research Area	Neuroscience, Neurodegeneration, Alzheimer's Disease, Tangles & Tau, Neuroscience, Neurodegeneration, Parkinson's Disease, Synuclein
Dilution	Dilute in PBS or medium which is identical to that used in the assay system.
Preparation and Storage	This antibody is stable for at least one (1) year at -20 degree C. Avoid multiple freeze-thaw cycles.



WB (Western Blot)

Western Blot analysis of Human, Mouse, Rat Brain showing detection of 14 kDa Alpha Synuclein protein using Mouse Anti-Alpha Synuclein Monoclonal Antibody, Clone 10H7. Lane 1: Molecular Weight Ladder (MW). Lane 2: Mouse Brain cell lysate. Lane 3: Rat brain cell lysate. Lane 4: Human brain cell lysate. Load: 15 ug. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-Alpha Synuclein Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Mouse HRP: IgG at 1:3000 for 1 hour at RT. Color Development: ECL solution (Super Signal West Pico) for 5 min in RT. Predicted/Observed Size: 14 kDa. Other Band(s): ~40 kDa (trimer).



ICC (Immunocytochemistry)

Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Alpha Synuclein Monoclonal Antibody, Clone 10H7. Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Alpha Synuclein Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:200 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Cytoplasm: weak; Nucleus: Med. Magnification: 60X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) Alpha Synuclein Antibody. (D) Composite.

ADDITIONAL INFORMATION

Related Product Information for anti-SNCA antibody	Alpha-Synuclein (SNCA) is expressed predominantly in the brain, where it is concentrated in presynaptic nerve terminals (1). Alpha-synuclein is highly expressed in the mitochondria of the olfactory bulb, hippocampus, striatum and thalamus (2). Functionally, it has been shown to significantly interact with tubulin (3), and may serve as a potential microtubule-associated protein. It has also been found to be essential for normal development of the cognitive functions; inactivation may lead to impaired spatial learning and working memory (4). SNCA fibrillar aggregates represent the major non A-beta component of Alzheimers disease amyloid plaque, and a major component of Lewy body inclusions, and Parkinson's disease. Parkinson's disease (PD) is a common neurodegenerative disorder characterized by the progressive accumulation in selected neurons of protein inclusions containing alpha-synuclein and ubiquitin (5, 6).
Product Categories/Family for anti-SNCA antibody	Primary Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	109638747
NCBI GeneID	20617
NCBI Accession #	NP_001035916.1
NCBI GenBank Nucleotide #	NM_001042451.1
UniProt Accession #	O55042; Q3U130; Q9CXF8; Q9EQC3; Q9QUR3
Molecular Weight	14,485 Da
NCBI Official Full Name	alpha-synuclein
NCBI Official Synonym Full Names	synuclein, alpha
NCBI Official Symbol	Snca
NCBI Official Synonym Symbols	NACP; alphaSYN
NCBI Protein Information	alpha-synuclein; alpha SYN; non-A4 component of amyloid; non-A beta component of AD amyloid
UniProt Protein Name	Alpha-synuclein

UniProt Gene Name	Snca
UniProt Synonym Gene Names	Syn; NACP
UniProt Entry Name	SYUA_MOUSE

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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Online datasheet: <https://stage.aaabiotech.com/monoclonal/alpha-synuclein-antibody-clone-10h7-immunofluorescence-immunocytochemistry-dot-blot-western-blot-elisa/47971>