Rabbit anti-Human, Mouse Alpha Synuclein Monoclonal Antibody | anti-alphaSYN antibody

Alpha Synuclein Antibody (pSer129), Clone J18

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA253969	**Rabbit**	**Human, Mouse**	**Immunohistochemistry, Immunocytochemistry, Western Blot, ELISA**

PRODUCT SYNONYMS

Alpha Synuclein; Monoclonal Antibody; Alpha Synuclein Antibody (pSer129); Clone J18; Rabbit Anti-Human Alpha Synuclein pSer129 Monoclonal IgG; Phosphorylated alpha synuclein antibody; Phospho anti-alpha Synuclein (S129) antibody; Alpha-synuclein (phospho S129) antibody; alpha Synuclein (phospho Ser129) antibody; alpha-Synuclein Phospho Ser129 Antibody; phospho-alpha-Synuclein (Ser129) Antibody; Alpha synuclein antibody; Alpha synuclein antibody phospho Serine 129; Alpha synuclein antibody phospho Ser 129; Alpha synuclein antibody pSerine 129; Alpha synuclein antibody pSer 129; Alpha synuclein antibody phosphoSer 129; Alpha-synuclein antibody; Alpha-synuclein; isoform NACP140 antibody; alphaSYN antibody; NACP antibody; Non A beta component of AD amyloid antibody; Non A4 component of amyloid antibody; Non A4 component of amyloid precursor antibody; Non-A beta component of AD amyloid antibody; Non-A-beta component of alzheimers disease amyloid; precursor of antibody; Non-A4 component of amyloid precursor antibody; Non-A4 component of amyloid; PARK 1 antibody; PARK 4 antibody; PARK1 antibody; PARK4 antibody; Parkinson disease (autosomal dominant; Lewy body) 4 antibody; Parkinson disease familial 1 antibody; SNCA antibody; alpha (non A4 component of amyloid precursor) antibody; SYN antibody; Synuclein alpha antibody; Synuclein alpha 140 antibody; Synuclein; SYUA_HUMAN antibody; Alpha Synuclein pSer129; anti-alphaSYN antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG
Clone Number	J18
Specificity	Binds to phosphorylated serine 129 on alpha synuclein. Does not detect unphosphorylated serine 129 alpha synuclein.
Purity/Purification	Affinity Purified
Form/Format	PBS pH 7.4, 50% Glycerol, 0.09% Sodium Azide
Concentration	1 mg/ml (varies by lot)
Sequence Length	140
Applicable Applications for anti-alphaSYN antibody	IHC (Immunohistochemistry), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Immunogen Species	Human
Immunogen	Human alpha synuclein AA 124-134: AYEMP-pS-EEGYQ-Cys
Conjugate	Unconjugated
Cellular Localization	Cytoplasm; Cytosol; Membrane; Nucleus; Cell Junction; Synapse
Tissue Specificity	Expressed principally in brain but is also expressed in low concentrations in all tissues examined except in liver. Concentrated in presynaptic nerve terminals.
Antibody Type	Recombinant Monoclonal
Preparation and Storage	Store at -20 degree C.

IMAGES

WB (Western Blot)
Western Blot analysis of Human Alpha Synuclein protein using Rabbit Anti-Alpha Synuclein pSer129 Monoclonal Antibody, Clone J18. Lane 1: MW ladder. Lane 2: 0.5 ug human alpha synuclein monomer. Lane 3: 2 ug human alpha synuclein monomer. Lane 4: 0.5 ug human alpha synuclein PFFs. Lane 5: 2 ug human alpha synuclein PFFs. Block: 5% BSA in TBST. Primary Antibody: Rabbit Anti-Alpha Synuclein pSer129 Monoclonal Antibody at 1:500 for 2 hours at RT with shaking. Secondary Antibody: Goat anti-mouse IgG:HRP at 1:4000 for 1 hour at RT with shaking. Color Development: Chemiluminescent for HRP (Moss) for 5 min in RT. It does not detect unphosphorylated alpha synuclein.

WB (Western Blot)
Western Blot analysis of Mouse Brain showing detection of Alpha Synuclein pSer129 protein using Rabbit Anti-Alpha Synuclein pSer129 Monoclonal Antibody, Clone J18. Lane 1: MW ladder. Lane 2: Mouse brain. Load: 15 ug. Block: 5% BSA in TBST. Primary Antibody: Rabbit Anti-Alpha Synuclein pSer129 Monoclonal Antibody at 1:500 for 2 hours at RT with shaking. Secondary Antibody: Goat anti-mouse IgG:HRP at 1:4000 for 1 hour at RT with shaking. Color Development: Chemiluminescent for HRP (Moss) for 5 min in RT.

ADDITIONAL INFORMATION

Related Product Information for anti-alphaSYN 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). Alpha synuclein phosphorylated at serine 129 constitutes 90% of the alpha synuclein found in Lewy bodies (7, 8).
Product Categories/Family for anti-alphaSYN antibody	Neuroscience; Neurodegeneration; Alzheimer's Disease; Tangles & Tau; Neuroscience; Neurodegeneration; Parkinson's Disease; Synuclein; Antibodies
References	1. "Genetics Home Reference: SNCA". US National Library of Medicine. (2013). 2. Zhang L., et al. (2008) Brain Res. 1244: 40-52. 3. Alim M.A., et al. (2002) J Biol Chem. 277(3): 2112-2117. 4. Kokhan V.S., Afanasyeva M.A., Van'kin G. (2012) Behav. Brain. Res. 231(1): 226-230. 5. Spillantini M.G., et al. (1997) Nature. 388(6645): 839-840. 6. Mezey E., et al. (1998) Nat Med. 4(7): 755-757. 7. Fujiwara H., et al. (2002) Nat Cell Biol. 4(2):160-4. 8. Anderson J.P., et al. (2006) J Biol Chem. 281(40):29739-52.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507109
NCBI GeneID	6622
NCBI Accession #	NP_000336.1
NCBI GenBank Nucleotide #	NP_000336.1
UniProt Accession #	P37840
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
NCBI Protein Information	alpha-synuclein
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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Online datasheet: https://stage.aaabiotech.com/monoclonal/alpha-synuclein-antibody-clone-j18-immunohistochemistry-immunocytochemistry-western-blot-elisa/253969