

a-Synuclein Antibody

Catalog No: #21278



Package Size: #21278-1 50ul #21278-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

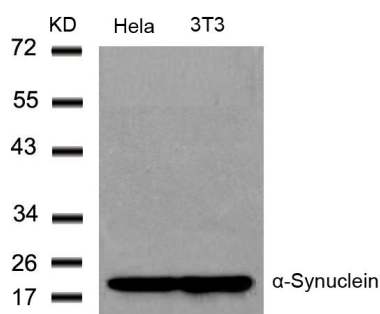
Description

Product Name	a-Synuclein Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB;IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total a-Synuclein protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa. 134~138 (Q-D-Y-E-P) derived from Human α -Synuclein.
Conjugates	Unconjugated
Target Name	a-Synuclein
Other Names	NACP; SYN; SYUA; alpha-synuclein;
Accession No.	Swiss-Prot: P37840NCBI Protein: NP_000336.1
Calculated MW	14kDa
SDS-PAGE MW	18kDa
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

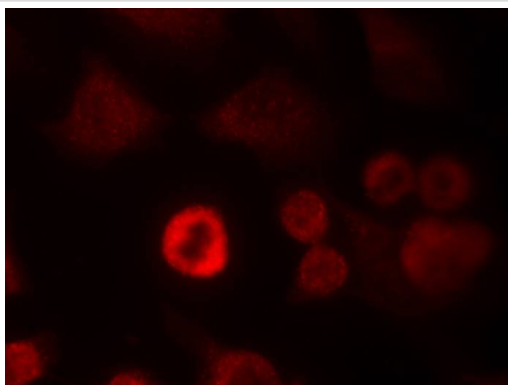
Application Details

WB 1:1000-1:2000; IF 1:50-1:200;

Images



Western blot analysis of extracts from HeLa and 3T3 cells using a-Synuclein(Ab-136) Antibody #21278.



Immunofluorescence staining of methanol-fixed HeLa cells using α-Synuclein (Ab-136) Antibody #21278.

Background

SncA is a member of the synuclein family of structurally related proteins that are prominently expressed in the central nervous system, which also includes beta- and gamma-synuclein. Synucleins are abundantly expressed in the brain and SncA and Snc-Beta inhibit phospholipase D2 selectively. SncA may serve to integrate presynaptic signaling and membrane trafficking. Aggregated SncA proteins form brain lesions that are hallmarks of neurodegenerative synucleinopathies. Defects in SncA play a role in the pathogenesis of Parkinson disease. SncA peptides are a major component of amyloid plaques in the brains of patients with Alzheimer disease. SncA shares 95% sequence homology with rat SncA. Rat SncA is specifically expressed in brain and is associated with synaptosomal membranes in neurons

Takahashi T, et al. J Biol Chem 2003 Oct 24; 278(43): 42225-33

Ahn BH, et al. J Biol Chem 2002 Apr 05; 277(14): 12334-42

Negro A, et al. FASEB J 2002 Feb; 16(2): 210-2

Goldberg, et al. Nat. Cell Biol. 2000; 2, 115-119.

Published Papers

Shan-chuan Zhong, Xue Luo, Xing-shu Chen et al., Expression and Subcellular Location of Alpha-Synuclein During Mouse-Embryonic Development, Cell Mol Neurobiol, 30:469— C482(2010)

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et al., Expression and Subcellular Location of Alpha-Synuclein During Mouse-Embryonic Development. In Cell Mol Neurobiol on 2010 Apr by Shan-chuan Zhong, Xue Luo, et al..PMID: 19885730, , (2010)

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et al., Alpha-synuclein loss in spinal muscular atrophy. In J Mol Neurosci on 2011 Mar by Gyula Acsadi, Xingli Li, et al..PMID: 20640532, , (2011)

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et al., Distribution of the Alpha-Synuclein in the Brain and the Primary Organs of the Rhesus Monkey. In Appl Biochem Biotechnol on 2021 Oct by Jin-Ling Yang, Jia-Hong Gao, et al..PMID:34097253, , (2021)

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et al., G protein subunit δ α regulates gastric cancer growth via the p53/p21 and MEK/ERK pathways. In Oncol Rep on 2017 Apr by Yizhuo Wang, Huijie Xiao, et al..PMID: 28350126, , (2017)

[PMID:28350126](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.