a-Synuclein(Phospho-Tyr133) Antibody

Catalog No: #11285

Package Size: #11285-1 50ul #11285-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	a-Synuclein(Phospho-Tyr133) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of a-Synuclein only when phosphorylated at tyrosine 133.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 133 (E-G-Y(p)-Q-D) derived from Human a-Synuclein.
Target Name	a-Synuclein
Modification	Phospho
Other Names	NACP; SYN; SYUA; alpha-synuclein;
Accession No.	Swiss-Prot: P37840NCBI Protein: NP_000336.1
Uniprot	P37840
GeneID	6622;
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), 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.

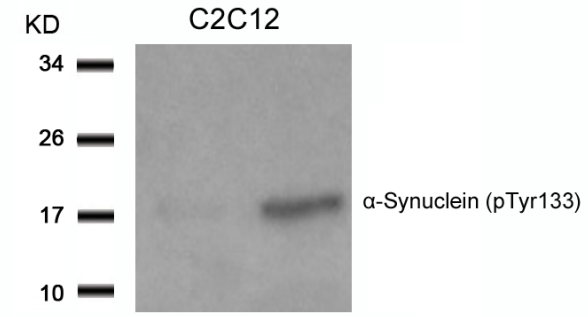
Application Details

Predicted MW: 18kd

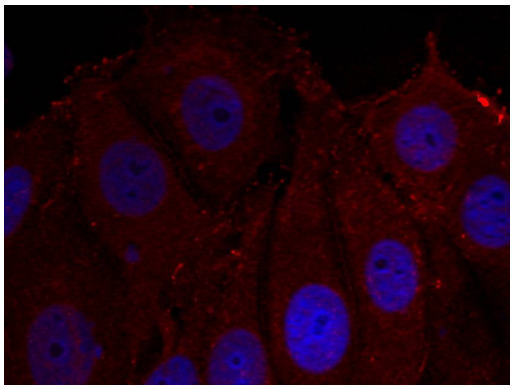
Western blotting: 1:500~1:1000

Immunofluorescence: 1:100~1:200

Images



Western blot analysis of extracts from C2C12 cells untreated or treated with Anisomycin using a-Synuclein(Phospho-Tyr133) Antibody #11285.



Immunofluorescence staining of methanol-fixed Hela cells using a-Synuclein(Phospho-Tyr133) Antibody #11285.

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

Kozikowski AP, et al. (2006)ChemMedChem. 1(2):256-66.
Jakowec MW,et al.(2001)Dev Neurosci.23(2):91-9.
El-Agnaf OM,et al.(1998)FEBS Lett. 440(1-2):67-70.

Note: This product is for in vitro research use only