

a-Synuclein(Phospho-Tyr136) Antibody

Catalog No: #11286

Package Size: #11286-1 50ul #11286-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	a-Synuclein(Phospho-Tyr136) 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 chromatography 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 136.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 136 (Q-D-Y(p)-E-P) derived from Human a-Synuclein.
Target Name	a-Synuclein
Modification	Phospho
Other Names	NACP; SYN; SYUA
Accession No.	Swiss-Prot: P37840 NCBI Protein: NP_000336.1
Uniprot	P37840
GeneID	6622;
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.

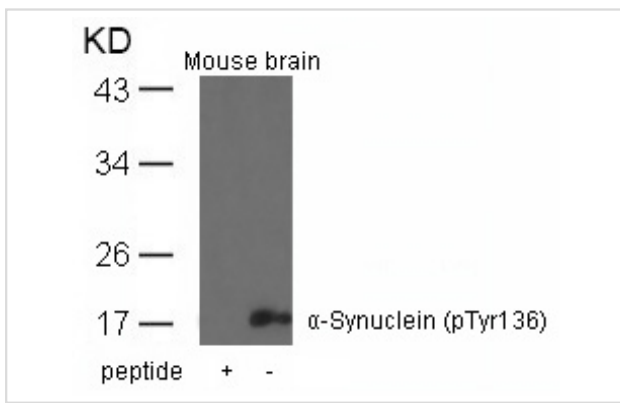
Application Details

Predicted MW: 18kd

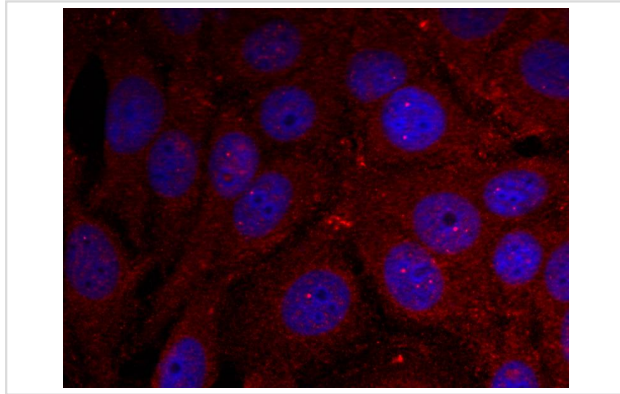
Western blotting: 1:500~1:1000

Immunofluorescence: 1:100~1:200

Images



Western blot analysis of extracts from mouse brain tissue using α-Synuclein(Phospho-Tyr136) Antibody #11286 and the same antibody preincubated with blocking peptide.



Immunofluorescence staining of methanol-fixed HeLa cells using α-Synuclein(Phospho-Tyr136) Antibody #11286.

Background

May be involved in the regulation of dopamine release and transport. Soluble protein, normally localized primarily at the presynaptic region of axons, which can form filamentous aggregates that are the major non amyloid component of intracellular inclusions in several neurodegenerative diseases (synucleinopathies). Induces fibrillization of microtubule-associated protein tau. Reduces neuronal responsiveness to various apoptotic stimuli, leading to a decreased caspase-3 activation.

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.

Note: This product is for in vitro research use only