

Datasheet: AHP1537

Description:	RABBIT ANTI ALPHA SYNUCLEIN (pSer129)		
Specificity:	ALPHA SYNUCLEIN (pSer129)		
Format:	Purified		
Product Type:	Polyclonal Antibody		
Isotype:	Polyclonal IgG		
Quantity:	0.1 ml		

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			•	
Immunohistology - Frozen				
Immunohistology - Paraffin			•	
ELISA			•	
Immunoprecipitation			•	
Western Blotting (1)	-			1/1000
Immunofluorescence			•	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) For the detection of phosphoproteins, serine phosphatase inhibitors such as 10mM Sodium Fluoride should be added to the sample buffer. Milk or other casein-based blocking solutions are not recommended as casein is a phosphoprotein and its use can result in high background.

Target Species	Rat	
Species Cross Reactivity	, Primate, Human, Bovine pecies.	
Product Form	Purified IgG - liquid	
Antiserum Preparation	Antisera to Alpha Synulein (pSer129) were raised by repeated immupurified antigen. Purified IgG prepared by affinity chromatography.	unisations of rabbits with highly
Buffer Solution	10mM Hepes pH7.5, 150mM NaCl	
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 50% Glycerol 0.01% Bovine Serum Albumin	

Immunogen

Synthetic phosphopeptide corresponding to amino acid sequence surrounding phosphorylated serine 129 of Alpha Synuclein.

External Database Links

UniProt:

P37377 Related reagents

Entrez Gene:

29219 Snca Related reagents

Specificity

Rabbit anti Rat alpha synuclein (pSer129) antibody recognizes alpha synuclein when phosphorylated at serine 129. Alpha synuclein is a 140 amino acid, ~15 kDa protein seen predominantly in the neocortex, hippocampus, substantia nigra, thalamus and cerebellum. Its normal cellular function has not been definitively determined, but it is thought to be involved in the regulation of neuronal plasticity, dopamine neurotransmission and other membrane-associated processes at the presynaptic terminal.

Alpha synuclein is normally a soluble, unfolded protein, but it can aggregate at high concentrations to form insoluble fibrils which, in association with other proteins such as ubiquitin, neurofilament protein and alpha B crystalline, form Lewy bodies. Lewy bodies are a hallmark pathological feature of Parkinson's disease and other neurodegenerative diseases. Alpha synuclein has several possible phosphorylation sites, serine 129 in particular can be phosphorylated by G-protein-coupled receptor kinases and this phosphorylation promotes formation of alpha synuclein filaments, with hyperphosphorylation of serine129 seen in Lewy bodies.

Western Blotting

AHP1537 detects a band of approximately 15kDa in rat cortex lysate.

References

1. Smith, W. W.et al (2005) Alpha-Synuclein Phosphorylation Enhances Eosinophilic Cytoplasmic Inclusion Formation in SH-SY5Y Cells. J. Neurosci. 25: 5544-5552.

Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10088 available at: 10088: https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf

Regulatory For resear

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) FITC

Sheep Anti Rabbit IgG (STAR35...) RPE

Goat Anti Rabbit IgG (H/L) (STAR124...) HRP

Goat Anti Rabbit IgG (Fc) (STAR121...) Biotin, FITC, HRP

Sheep Anti Rabbit IgG (2AB02...) Biotin

Sheep Anti Rabbit IgG (STAR36...) DyLight®488, DyLight®549, DyLight®649, DyLight®800

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