

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	▪			1/1000
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.

Target Species

Rat

Species Cross Reactivity

Based on sequence similarity, is expected to react with: Mouse, Dog, Primate, Human, Bovine

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Antiserum Preparation

Antisera to Alpha Synuclein (pSer129) were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

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
RRID	AB_2192961
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. <i>et al</i> (2005) Alpha-Synuclein Phosphorylation Enhances Eosinophilic Cytoplasmic Inclusion Formation in SH-SY5Y Cells. J. Neurosci. 25: 5544-52.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
Guarantee	12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10088 available at:
<https://www.bio-rad-antibodies.com/SDS/AHP1537>
10088

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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