abcam

Product datasheet

Anti-Alpha-synuclein (phospho S129) antibody ab59264

4 Abreviews 57 References 3 图像

概述

产品名称	Anti-Alpha-synuclein (phospho S129)**抗体**
描述	**兔多克隆抗体**to Alpha-synuclein (phospho S129)
宿主	Rabbit
特异性	Detects endogenous levels of Synuclein only when phosphorylated at serine 129. Due to 69% sequence homology ab59264 might react with Beta synuclein.
经测试应用	**适用于:** IHC-P, WB
种属反应性	**与反应:** Mouse, Human
免疫原	Synthetic peptide corresponding to Human Alpha-synuclein (phospho S129). Synthetic phosphopeptide derived from Human Synuclein around the phosphorylation site of serine 129 (M-P-SP-E-E). Database link: **P37840**
阳性对照	Human and mouse brain.
常规说明	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol, 0.87% Sodium chloride Without Mg+2 and Ca+2
纯度	Immunogen affinity purified
克隆	**多克隆**

同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab59264于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

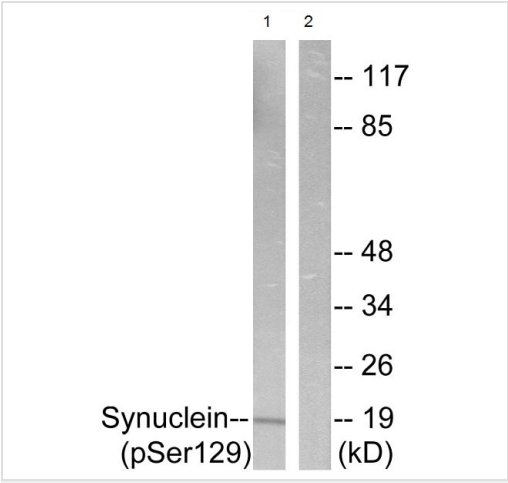
应用	Ab评论	说明
IHC-P		1/50 - 1/100. Antigen retrieval: Microwave method - put the slice into 10 mmol/L citrate buffer (pH 6.0), microwave high temperature for 5 minutes, and then medium temperature for 15 minutes. Primary antibody incubation: 1 hour at 37°C Secondary antibody: Poly-HRP-Anti Mouse/Rabbit IgG, 50 µL for
WB	★★★★☆ (3)	1/500 - 1/1000. Please see WB protocol details in the image legend.

靶标

功能	May be involved in the regulation of dopamine release and transport. Induces fibrillization of microtubule-associated protein tau. Reduces neuronal responsiveness to various apoptotic stimuli, leading to a decreased caspase-3 activation.
组织特异性	Expressed principally in brain but is also expressed in low concentrations in all tissues examined except in liver. Concentrated in presynaptic nerve terminals.
疾病相关	Genetic alterations of SNCA resulting in aberrant polymerization into fibrils, are associated with several neurodegenerative diseases (synucleinopathies). SNCA fibrillar aggregates represent the major non A-beta component of Alzheimer disease amyloid plaque, and a major component of Lewy body inclusions. They are also found within Lewy body (LB)-like intraneuronal inclusions, glial inclusions and axonal spheroids in neurodegeneration with brain iron accumulation type 1. Parkinson disease 1 Parkinson disease 4 Dementia Lewy body
序列相似性	Belongs to the synuclein family.
结构域	The 'non A-beta component of Alzheimer disease amyloid plaque' domain (NAC domain) is involved in fibrils formation. The middle hydrophobic region forms the core of the filaments. The C-terminus may regulate aggregation and determine the diameter of the filaments.
翻译后修饰	Phosphorylated, predominantly on serine residues. Phosphorylation by CK1 appears to occur on residues distinct from the residue phosphorylated by other kinases. Phosphorylation of Ser-129 is selective and extensive in synucleinopathy lesions. In vitro, phosphorylation at Ser-129 promoted insoluble fibril formation. Phosphorylated on Tyr-125 by a PTK2B-dependent pathway upon osmotic stress. Hallmark lesions of neurodegenerative synucleinopathies contain alpha-synuclein that is modified by nitration of tyrosine residues and possibly by dityrosine cross-linking to generated stable oligomers. Ubiquitinated. The predominant conjugate is the diubiquitinated form.

	Acetylation at Met-1 seems to be important for proper folding and native oligomeric structure.
细胞定位	Cytoplasm, cytosol. Membrane. Nucleus. Cell junction, synapse. Secreted. Membrane-bound in dopaminergic neurons.

图片



Western blot - Anti-Alpha-synuclein (phospho S129) antibody (ab59264)

All lanes : Anti-Alpha-synuclein (phospho S129) antibody (ab59264) at 1/500 dilution

Lane 1 : Mouse brain whole cell lysates
Lane 2 : Mouse brain whole cell lysates with immunogen phosphopeptide

Lysates/proteins at 40 µg per lane.

Blocking buffer: 5% (w/v) BSA in TBST.

Primary antibody dilution buffer: 5%(w/v)BSA,0.1%(v/v), Tween-20 in TBST.

Secondary antibody dilution buffer: 5%(w/v)BSA,0.1%(v/v),Tween-20 in TBST.

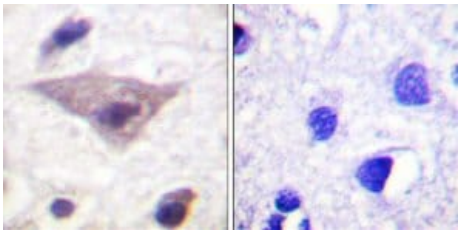
12% SDS gel. Nitrocellulose membrane.

Blocking: Room temperature for 2 hours or overnight at 4°C. Then wash 3x for 5 minutes with 0.05% blocking buffer.

Primary antibody incubation: diluted in TBST at 1/500. Incubate overnight with 4 degrees shaking. Then, in 0.05% TBST, wash membrane 3-4 times for 10min.

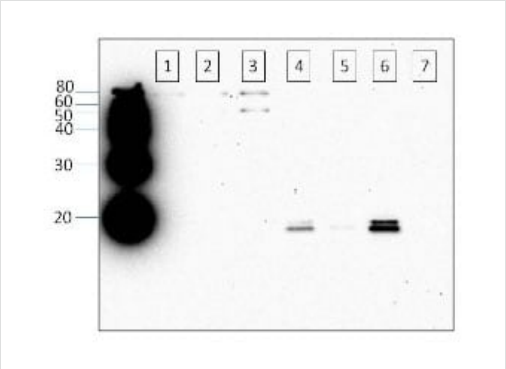
Secondary antibody incubation: diluted in TBST at 1/2000. Incubate 37°C for 1 hour. Then, in 0.05% TBST, wash membrane 3-4 times for 10min.

ECL development.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Alpha-synuclein (phospho S129) antibody (ab59264)

Immunohistochemical analysis of paraffin-embedded human brain tissue using ab59264 at a dilution of 1/50-1/100. Left hand image - without immunising peptide; right hand image - with immunising peptide.



Western blot - Anti-Alpha-synuclein (phospho S129) antibody (ab59264)

Image courtesy of Sébastien Brot by Abreview.

All lanes : Anti-Alpha-synuclein (phospho S129) antibody (ab59264) at 1/1000 dilution

Lanes 1-3 : Whole tissue lysate prepared from young transgenic mouse overexpressing human alpha-synuclein
Lanes 4-6 : Whole tissue lysate prepared from old transgenic mouse overexpressing human alpha-synuclein
Lane 7 : Whole tissue lysate prepared from KO mouse

Lysates/proteins at 50 µg per lane.

Secondary
All lanes : Goat anti-rabbit Ig (H+L) HRP at 1/1000 dilution

Developed using the ECL technique.

Observed band size: 18,19 kDa
Additional bands at: 60 kDa, 80 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 5 minutes

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.cn/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors