abcam

Product datasheet

Anti-Alpha-synuclein antibody ab52168

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Overview

Product name Anti-Alpha-synuclein antibody

Description Rabbit polyclonal to Alpha-synuclein

Host species Rabbit

Specificity Due to 83% sequence homology ab52168 might react with Beta synuclein

Tested applications Suitable for: ⊮C-P

Species reactivity Reacts with: Human

Immunogen Synthetic peptide corresponding to Human Alpha-synuclein. Synthetic non-phosphopeptide

derived from human alpha Synuclein around the phosphorylation site of tyrosine 133 (E-G-Y-Q-D).

General notes

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

Properties

Form Liquid

Storage instructions Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Storage buffer pH: 7

Preservative: 0.02% Sodium azide

Constituents: PBS, 50% Glycerol, 0.87% Sodium chloride

Purity Immunogen affinity purified

Clonality Polyclonal

Isotype IgG

Applications

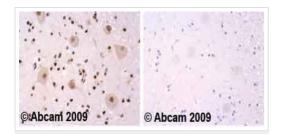
The Abpromise guarantee Our Abpromise guarantee covers the use of ab52168 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	**** <u>(2)</u>	Use a concentration of 4 μ g/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Target	
Function May be involved in the regulation of dopamine release microtubule-associated protein tau. Reduces neurona stimuli, leading to a decreased caspase-3 activation.	•
Tissue specificity Expressed principally in brain but is also expressed in except in liver. Concentrated in presynaptic nerve term	
Involvement in disease Genetic alterations of SNCA resulting in aberrant poly several neurodegenerative diseases (synucleinopathic major non A-beta component of Alzheimer disease are Lewy body inclusions. They are also found within Lewy glial inclusions and axonal spheroids in neurodegener Parkinson disease 1 Parkinson disease 4 Dementia Lewy body	es). SNCA fibrillar aggregates represent the myloid plaque, and a major component of y body (LB)-like intraneuronal inclusions,
Sequence similarities Belongs to the synuclein family.	
Domain The 'non A-beta component of Alzheimer disease amy involved in fibrils formation. The middle hydrophobic reterminus may regulate aggregation and determine the	egion forms the core of the filaments. The C-
Post-translational Phosphorylated, predominantly on serine residues. Phosphorylated by considerations residues distinct from the residue phosphorylated by consideration selective and extensive in synucleinopathy lesions. In vinsoluble fibril formation. Phosphorylated on Tyr-125 by cosmotic stress. Hallmark lesions of neurodegenerative synucleinopathy by nitration of tyrosine residues and possibly by dityrost oligomers. Ubiquitinated. The predominant conjugate is the diubid Acetylation at Met-1 seems to be important for proper	other kinases. Phosphorylation of Ser-129 is vitro, phosphorylation at Ser-129 promoted by a PTK2B-dependent pathway upon thies contain alpha-synuclein that is modified usine cross-linking to generated stable equitinated form.
Cellular localization Cytoplasm, cytosol. Membrane. Nucleus. Cell junction, dopaminergic neurons.	n, synapse. Secreted. Membrane-bound in

Images



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Alpha-synuclein antibody (ab52168)

Ab52168 staining human dentate nuleus. Staining is localised to the cytoplasm and nucleus.

Left panel: with primary antibody at 4 ug/ml. Right panel: isotype control.

Sections were stained using an automated system DAKO Autostainer Plus, at room temperature. Sections were rehydrated and antigen retrieved with the DAKO 3-in-1 antigen retrieval buffer citrate pH 6.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be r

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