abcam

Product datasheet

Recombinant Human Alpha-synuclein (mutated E46K) protein ab51188

2 References 1 图像

描述

产品名称	重组人Alpha-synuclein (mutated E46K)蛋白
纯度	> 95 % SDS-PAGE. Alpha Synuclein E46K was overexpressed in *E. coli* and purified to apparent homogeneity by using conventional column chromatography techniques.
表达系统	Escherichia coli
Accession	P37840
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MDVFMKGLSK/ AKEGVVAAAE/ KTKQGVAEAA/ GKTKEGVLYV/ GSKTK[K]GVVH/GVATVAEKTK/EQVTNVGGAV/VT GVTAVAQK/TVEGAGSIAA/ ATGFVKKDQL/GKNEEGAPQE/GILEDM PVDP/DNEAYEMPSE/EGYQDYEPEA
预测分子量	14 kDa
氨基酸	1 to 140
修饰	mutated E46K

技术指标

Our **Abpromise guarantee** covers the use of **ab51188** in the following tested applications.

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

应用	SDS-PAGE
形式	Liquid
补充说明	Recent studies have shown that this mutant(E46K) of alpha-synuclein causes Parkinson and Lewy Body dementia(DLB).

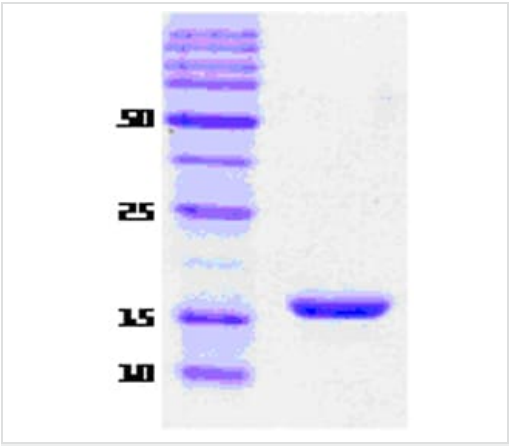
制备和贮存

稳定性和存储	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.316% Tris HCl, 0.58% Sodium chloride

常规信息

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



SDS-PAGE - Recombinant Human Alpha-synuclein (mutated E46K) protein (ab51188)

ab51188 in 15%SDS-PAGE

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