abcam

Product datasheet

Human Presenilin 1/PS-1 peptide ab49413

描述

纯**度** > 50 % Mass-Spectrometry.

Purified by Ion Spray Mass Spectrometry.

无动物成分 No

性质 Synthetic

种属 Human

序列 AQMSEDNHLSNTVRSQNDNR

氨基酸 14 to 33

技术指标

Our Abpromise guarantee covers the use of ab49413 in the following tested applications.

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

形式 Liquid

制备和贮存

稳定性和存储 Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

常规信息

功能 Probable catalytic subunit of the gamma-secretase complex, an endoprotease complex that

catalyzes the intramembrane cleavage of integral membrane proteins such as Notch receptors and APP (beta-amyloid precursor protein). Requires the other members of the gamma-secretase complex to have a protease activity. May play a role in intracellular signaling and gene expression

or in linking chromatin to the nuclear membrane. Stimulates cell-cell adhesion though its

association with the E-cadherin/catenin complex. Under conditions of apoptosis or calcium influx, cleaves E-cadherin promoting the disassembly of the E-cadherin/catenin complex and increasing the pool of cytoplasmic beta-catenin, thus negatively regulating Wnt signaling. May also play a role

in hematopoiesis.

组织特异性 Expressed in a wide range of tissues including various regions of the brain, liver, spleen and

lymph nodes.

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疾病相关

Defects in PSEN1 are a cause of Alzheimer disease type 3 (AD3) [MIM:607822]. AD3 is a familial early-onset form of Alzheimer disease. Alzheimer disease is a neurodegenerative disorder characterized by progressive dementia, loss of cognitive abilities, and deposition of fibrillar amyloid proteins as intraneuronal neurofibrillary tangles, extracellular amyloid plaques and vascular amyloid deposits. The major constituent of these plaques is the neurotoxic amyloid-beta-APP 40-42 peptide (s), derived proteolytically from the transmembrane precursor protein APP by sequential secretase processing. The cytotoxic C-terminal fragments (CTFs) and the caspase-cleaved products such as C31 derived from APP, are also implicated in neuronal death. Defects in PSEN1 are a cause of frontotemporal dementia [MIM:600274].

Defects in PSEN1 are the cause of cardiomyopathy dilated type 1U (CMD1U) [MIM:613694]. It is a disorder characterized by ventricular dilation and impaired systolic function, resulting in

congestive heart failure and arrhythmia. Patients are at risk of premature death.

Defects in PSEN1 are the cause of acne inversa familial type 3 (ACNIF3) [MIM:613737]. A chronic relapsing inflammatory disease of the hair follicles characterized by recurrent draining sinuses, painful skin abscesses, and disfiguring scars. Manifestations typically appear after

puberty.

序列相似性 Belongs to the peptidase A22A family.

结**构域** The PAL motif is required for normal active site conformation.

翻译后修饰 Heterogeneous proteolytic processing generates N-terminal (NTF) and C-terminal (CTF)

fragments of approximately 35 and 20 kDa, respectively. During apoptosis, the C-terminal fragment (CTF) is further cleaved by caspase-3 to produce the fragment, PS1-CTF12.

After endoproteolysis, the C-terminal fragment (CTF) is phosphorylated on serine residues by

PKA and/or PKC. Phosphorylation on Ser-346 inhibits endoproteolysis.

细胞定位 Endoplasmic reticulum membrane. Golgi apparatus membrane. Cell surface. Bound to NOTCH1

also at the cell surface. Colocalizes with CDH1/2 at sites of cell-cell contact. Colocalizes with CTNNB1 in the endoplasmic reticulum and the proximity of the plasma membrane. Also present in

azurophil granules of neutrophils.

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