

Product datasheet

Anti-Presenilin 1 antibody ab12272

1 References [画像数 1](#)

製品の概要

製品名	Anti-Presenilin 1 antibody
製品の詳細	Rabbit polyclonal to Presenilin 1
由来種	Rabbit
アプリケーション	<b>適用あり:</b> ICC/IF, WB, ICC
種交差性	<b>交差種:</b> Mouse, Rat, Hamster, Human, Monkey
免疫原	Purified recombinant protein, encompassing C-terminal amino acids 298-367 of human Presenilin 1.

特記事項

ab12272 is targeted against the C-terminal fragment, loop domain of Presenilin 1 and reacts with full-length and C-terminal fragments of presenilin 1 from human, monkey, mouse and hamster.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.01% Sodium Azide Constituents: Whole serum
精製度	Whole antiserum
一次抗体 備考	ab12272 is targeted against the C-terminal fragment, loop domain of Presenilin 1 and reacts with full-length and C-terminal fragments of presenilin 1 from human, monkey, mouse and hamster.
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab12272** in the following tested applications.

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

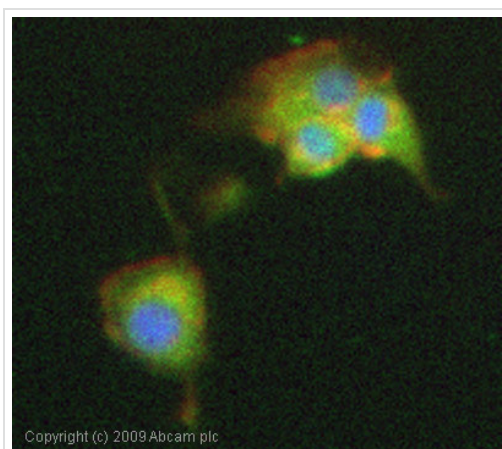
アプリケーション	Abreviews	特記事項
ICC/IF		1/1000.
WB		1/500 - 1/2000. Predicted molecular weight: 52 kDa. Predicted molecular weight: 52kDa - This is the MW of the unprocessed precursor.
ICC		1/100 - 1/500.

## ターゲット情報

機能	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 through 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.
組織特異性	Expressed in a wide range of tissues including various regions of the brain, liver, spleen and lymph nodes.
関連疾患	<p>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.</p> <p>Defects in PSEN1 are a cause of frontotemporal dementia [MIM:600274].</p> <p>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.</p> <p>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.</p>
配列類似性	Belongs to the peptidase A22A family.
ドメイン	The PAL motif is required for normal active site conformation.
翻訳後修飾	<p>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.</p> <p>After endoproteolysis, the C-terminal fragment (CTF) is phosphorylated on serine residues by PKA and/or PKC. Phosphorylation on Ser-346 inhibits endoproteolysis.</p>
細胞内局在	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.

## 画像



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Immunocytochemistry/ Immunofluorescence -  
Presenilin 1 antibody (ab12272)

ICC/IF image of ab12272 stained PC12 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab12272, 1/1000 dilution) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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