




Anti-Nicastrin antibody ab3444

4 References [画像数 3](#)

製品の概要

製品名	Anti-Nicastrin antibody
製品の詳細	Rabbit polyclonal to Nicastrin
由来種	Rabbit
アプリケーション	適用あり: WB
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide corresponding to Human Nicastrin aa 650-750. <div>  Run BLAST with  Run BLAST with  </div>
ポジティブ・コントロール	WB: T98G, RSC96, mouse neuronal cells, HeLa, IMR-32, NIH/3T3, L6, mouse brain, rat brain
特記事項	<p>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.</p> <p>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</p>

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: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
精製度	Immunogen affinity purified
一次抗体 備考	Amyloid beta peptide is the major constituent of amyloid plaques in the brains of individuals afflicted with Alzheimer's disease. This peptide is generated from the beta-amyloid precursor protein (beta APP) in a two-step process. The first step involves cleavage of the extracellular, amino-terminal domain of beta APP. Protein cleavage is performed by an aspartyl protease termed beta-secretase (BACE). This enzyme is synthesized as a propeptide that must be modified to the mature and active form by the prohormone convertase, furin. Beta APP cleavage by the mature form of BACE results in the cellular secretion of a segment of beta APP and a

membrane-bound remnant. This remnant is then processed by another protease termed gamma-secretase. Gamma-secretase cleaves an intra-membrane site in the carboxyl-terminal domain of beta APP, thus generating the amyloid beta peptide. Gamma-secretase is believed to be a multi-subunit complex containing presenilin-1 and 2 as central components. Found associated with the presenilins is the transmembrane glycoprotein nicastrin. Nicastrin has been found to bind to the carboxyl-terminus of beta APP and helps to modulate the production of the amyloid beta peptide. Also found in the neurofibrillary lesions associated with Alzheimer's disease is a protein termed Tau. Tau is a neuronal microtubule-associated protein found predominantly on axons. Tau functions to promote tubulin polymerization and stabilize microtubules. Tau, in its hyperphosphorylated form, is the major constituent of paired helical filaments (PHF), which are the building block of neurofibrillary lesions found in brain tissue of Alzheimer's diseased patients.

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

The Abpromise guarantee

Abpromise保証は、次のテスト済みアプリケーションにおけるab3444の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 110 kDa (predicted molecular weight: 78 kDa).

ターゲット情報

機能

Essential 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). It probably represents a stabilizing cofactor required for the assembly of the gamma-secretase complex.

組織特異性

Widely expressed.

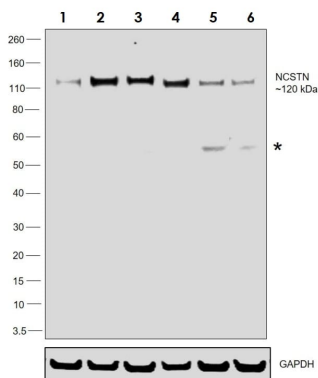
配列類似性

Belongs to the nicastrin family.

細胞内局在

Membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

画像



Western blot - Anti-Nicastrin antibody (ab3444)

All lanes : Anti-Nicastrin antibody (ab3444) at 1 µg/ml

Lane 1 : HeLa whole cell extract

Lane 2 : IMR-32 whole cell extract (human neuroblastoma cell line)

Lane 3 : NIH/3T3 whole cell extract (mouse embryo fibroblast cell line)

Lane 4 : L6 whole cell extract (Rat skeletal muscle cell line)

Lane 5 : mouse brain

Lane 6 : rat brain

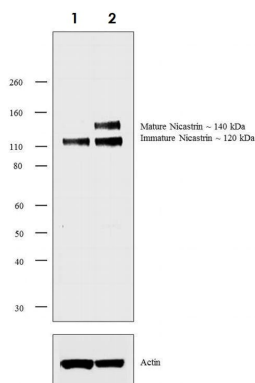
Lysates/proteins at 60 µg per lane.

Secondary

All lanes : Goat anti-Rabbit IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP at 1/4000 dilution

Developed using the ECL technique.

Predicted band size: 78 kDa



Western blot - Anti-Nicastrin antibody (ab3444)

All lanes : Anti-Nicastrin antibody (ab3444) at 2 µg/ml

Lane 1 : T98G membrane extract (Human glioblastoma cell line)

Lane 2 : RSC96 membrane extract (spontaneously immortalized rat Schwann cell line)

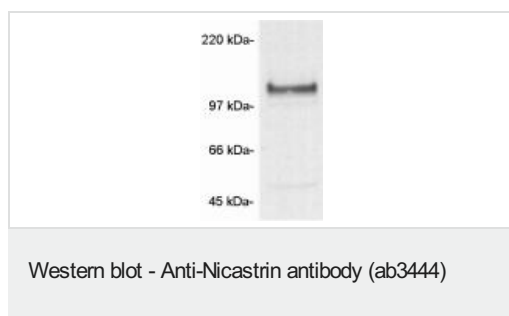
Lysates/proteins at 30 µg per lane.

Secondary

All lanes : Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate at 1/4000 dilution

Developed using the ECL technique.

Predicted band size: 78 kDa



Western blot detection of Nicastrin on mouse primary cultured neuronal cells using ab3444.

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