


Product datasheet

Anti-APBA1 antibody ab3448

1 References [画像数 1](#)

製品の概要

製品名	Anti-APBA1 antibody
製品の詳細	Rabbit polyclonal to APBA1
由来種	Rabbit
特異性	Detects APBA1 (Mint 1) from rat brain extract as well as extract from HEK293 cells overexpressing the rat gene.
アプリケーション	適用あり: WB
種交差性	交差種: Mouse, Rat 交差が予測される動物種: Human 
免疫原	Synthetic peptide corresponding to Rat APBA1 aa 1-17. Sequence: MNHLEGSAEVEVADEAP (Peptide available as ab4980) Run BLAST with Run BLAST with
ポジティブ・コントロール	Rat forebrain postnuclear supernatant.

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	The munc-18 interacting (Mint) protein family is a group of evolutionarily conserved adaptor proteins that function in membrane transport and organization. In mammals, there exist three Mint isoforms, Mint 1, 2, and 3. Although there is little amino acid sequence conservation in the amino-terminal half, the carboxy-terminal half of these proteins is highly conserved. Within this conserved portion there exists a phosphotyrosine-binding (PTB) and a PSD-95/DLG-A/ZO-1 (PDZ) domain, which function as protein interaction modules. Mint 1 and 2 appear to be expressed exclusively in the brain and are found to bind to Munc18, an essential component of the synaptic vesicle fusion machinery. Mint 3 is ubiquitously expressed in all tissues and is

expressed at the lowest levels in the brain and testis. Studies show that Mint3 does not interact with munc-18. Mint 3 has been found to interact with the Alzheimer's Disease-related amyloid precursor protein (APP) and does so through its PTB and PDZ domains. It has been suggested that Mint3 links APP to other transport machinery components, thereby regulating its transport, endocytosis, and metabolism. Abnormal APP metabolism has been shown to be the cause of an early-onset type of Alzheimer's disease.

ポリモノ
アイソタイプ

ポリクローナル
IgG

アプリケーション

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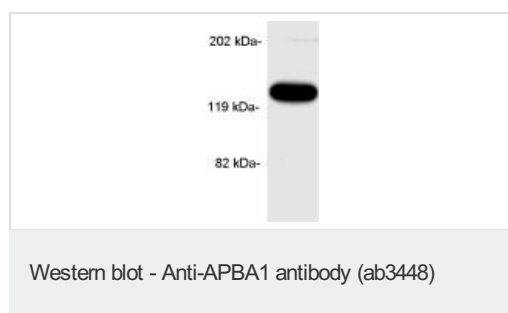
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 130 kDa (predicted molecular weight: 93 kDa). Can be blocked with APBA1 peptide (ab4980) . By Western blot, this antibody detects an ~130 kDa protein representing Mint 1 from rat forebrain postnuclear supernatant.

ターゲット情報

機能	Putative function in synaptic vesicle exocytosis by binding to Munc18-1, an essential component of the synaptic vesicle exocytotic machinery. May modulate processing of the beta-amyloid precursor protein (APP) and hence formation of beta-APP.
組織特異性	Brain and spinal cord.
配列類似性	Contains 2 PDZ (DHR) domains. Contains 1 PID domain.
ドメイン	Composed of an N-terminal domain that binds Munc18-1 and LIN-2/CASK, a middle phosphotyrosine-binding domain (PID/PTB) that mediates binding with the cytoplasmic domain of the beta-amyloid precursor protein, and two C-terminal PDZ domains thought to attach proteins to the plasma membrane.

画像



Western blot of APBA1 on extract from HEK293 cells overexpressing the rat gene using ab3448.

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