abcam

Product datasheet

Anti-BACE1 antibody ab2077

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概述

产品名称	Anti-BACE1抗体
描述	兔多克隆抗体to BACE1
宿主	Rabbit
经测试应用	**适用于:** WB, ICC, IHC-P
种属反应性	**与反应:** Mouse, Human
免疫原	Synthetic peptide corresponding to Human BACE1 (C terminal). The immunogen is located within the last 50 amino acids of BACE1 and it consists of a 17 aa peptide. Database link: **P56817** (Peptide available as **ab7883**)
阳性对照	WB: Human A431, A549, Caco-2, Daudi, HeLa, K562, Jurkat, SK-N-SH, THP-1 and brain tissue lysates. Mouse: 3T3/NIH cell lysate. IHC-P: Mouse brain tissue. ICC: Mouse 3T3 cells.
常规说明	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. 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

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.
存储溶液	pH: 7.2 Preservative: 0.02% Sodium azide
纯度	Affinity purified
Primary antibody说明	Beta-site APP Cleaving Enzyme.
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab2077于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★☆ (2)	Use a concentration of 1 µg/ml. Detects a band of approximately 70 kDa. We recommend overnight incubation at 4C and using 5% skim milk to block.
ICC		Use a concentration of 10 µg/ml.
IHC-P		Use a concentration of 2.5 µg/ml.

靶标

功能 Responsible for the proteolytic processing of the amyloid precursor protein (APP). Cleaves at the N-terminus of the A-beta peptide sequence, between residues 671 and 672 of APP, leads to the generation and extracellular release of beta-cleaved soluble APP, and a corresponding cell-associated C-terminal fragment which is later released by gamma-secretase.

组织特异性 Expressed at high levels in the brain and pancreas. In the brain, expression is highest in the substantia nigra, locus coruleus and medulla oblongata.

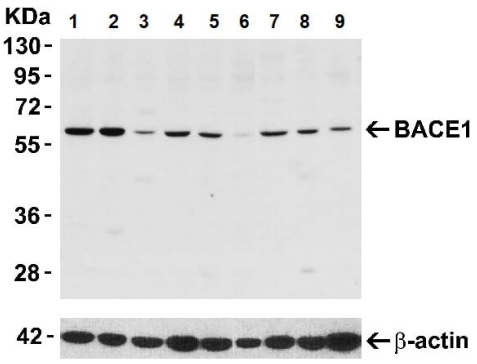
序列相似性 Belongs to the peptidase A1 family.

结构域 The transmembrane domain is necessary for its activity. It determines its late Golgi localization and access to its substrate, APP.

翻译后修饰 Glycosylated.

细胞定位 Membrane. Golgi apparatus > trans-Golgi network. Endoplasmic reticulum. Endosome. Cell surface. Predominantly localized to the later Golgi/trans-Golgi network (TGN) and minimally detectable in the early Golgi compartments. A small portion is also found in the endoplasmic reticulum, endosomes and on the cell surface.

图片



Western blot - Anti-BACE1 antibody (ab2077)

All lanes :

Lane 1 : A431 (Human epidermoid carcinoma cell line) whole cell lysate with Anti-BACE1 antibody (ab2077)
Lane 2 : A549 (Human lung carcinoma cell line) whole cell lysate with Anti-BACE1 antibody (ab2077)
Lane 3 : Caco-2 (Human colorectal adenocarcinoma cell line) whole cell lysate with Anti-BACE1 antibody (ab2077)
Lane 4 : Daudi (Human Burkitt's lymphoma cell line) whole cell lysate with Anti-BACE1 antibody (ab2077)
Lane 5 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate with Anti-BACE1 antibody (ab2077)
Lane 6 : K562 (Human chronic myelogenous leukemia cell line from bone marrow) whole cell lysate with Anti-BACE1 antibody (ab2077)
Lane 7 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate with Anti-BACE1 antibody (ab2077)
Lane 8 : SK-N-SH (Human neuroblastoma cell line) whole cell lysate with Anti-BACE1 antibody (ab2077)
Lane 9 : THP-1 (Human monocytic leukemia cell line) whole cell lysate with Anti-BACE1 antibody (ab2077)

Lysates/proteins at 15 µg per lane.

Blocking peptides at 1 µg/ml per lane.

Secondary
All lanes : Rabbit IgG antibody (HRP) at 1/10000 dilution

Developed using the ECL technique.

Additional bands at: 65 kDa (possible glycosylated form)

10% gel.

Running conditions: 130v for 2 hours.

Transfer conditions: wet, 250mA, 2 hrs (Nitrocellulose membrane).

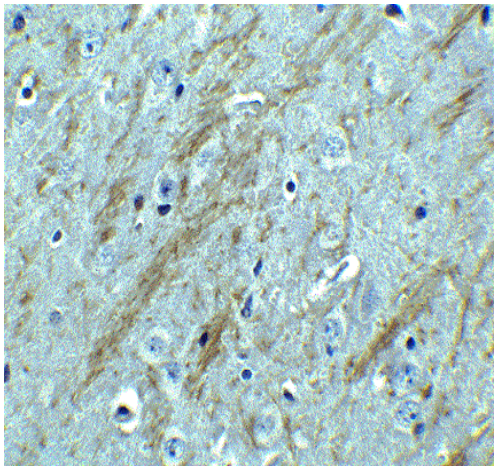
Blocking condition: 5% non-fat dry milk in TBS, 4C, overnight.

Primary antibody incubation: Room temperature for 1 hour.

Secondary antibody incubation: Room temperature for 1 hour.

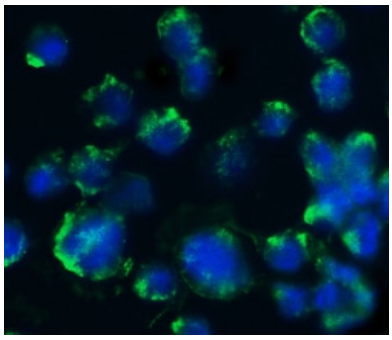
Washing conditions: 15 mL TSBT, 3 x 10 minutes.

Exposure: ECL solution



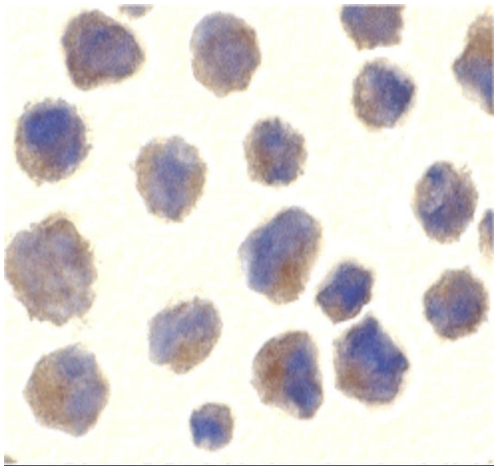
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BACE1 antibody (ab2077)

Immunohistochemical analysis of paraffin-embedded mouse brain tissue using ab2077 at 2.5 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



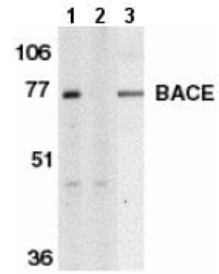
Immunocytochemistry - Anti-BACE1 antibody (ab2077)

Immunocytochemical analysis of 4% paraformaldehyde-fixed NIH/3T3 (Mouse embryo fibroblast cell line) cells labeling BACE1 with ab2077 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue). Image showing both membrane and cytosol staining on NIH/3T3 cells.



Immunocytochemistry - Anti-BACE1 antibody (ab2077)

Immunocytochemical analysis of NIH/3T3 (Mouse embryo fibroblast cell line) cells labeling BACE1 with ab2077 at 10 µg/mL. Cells were fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4^{O}C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Western blot - Anti-BACE1 antibody (ab2077)

All lanes : Anti-BACE1 antibody (ab2077) at 1 µg/ml

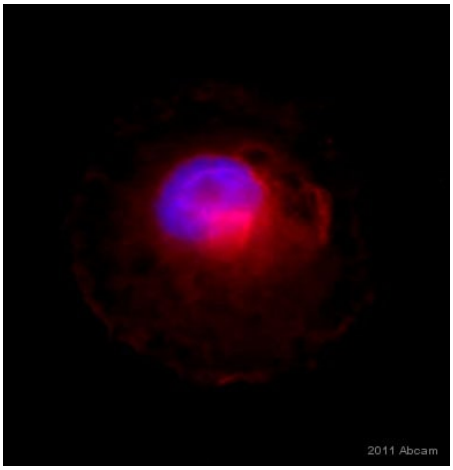
Lane 1 : Human brain tissue lysate with absence of blocking peptide
Lane 2 : Human brain tissue lysate with BACE1 peptide (**ab7883**)
Lane 3 : Mouse 3T3/NIH cell lysate

Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Goat anti-rabbit IgG HRP conjugate at 1/10000 dilution

Observed band size: 70 kDa

Incubate the antibody for 1 hour at room temperature in 5% NFDM/TBST.



Immunocytochemistry - Anti-BACE1 antibody (ab2077)
Image courtesy of an anonymous Abreview.

Immunocytochemical analysis of D54MG (human glioblastoma cell line) cells labeling BACE1 with ab2077.Cells were fixed in paraformaldehyde, permeabilized with 0.1% Triton X-100, blocked with 0.5% BSA for 20 minutes at room temperature, then incubated with ab2077 at a 1/50 dilution for 16 hours at 4°C. The secondary used was a TRITC conjugated goat anti-rabbit polyclonal, used at a 1/400 dilution. Nuclei are counterstained with DAPI.

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