Datasheet for ABIN499397

anti-BACE2 antibody (C-Term)

2 Images

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Overview

Quantity:	0.1 mg
Target:	BACE2
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BACE2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Human BACE2 (C-Terminus) Peptide
Isotype:	IgG
Specificity:	BACE2 antibody was raised against a peptide corresponding to amino acids near the carboxy terminus of human BACE2.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	BACE2
Alternative Name:	BACE2 (BACE2 Products)

Target Details

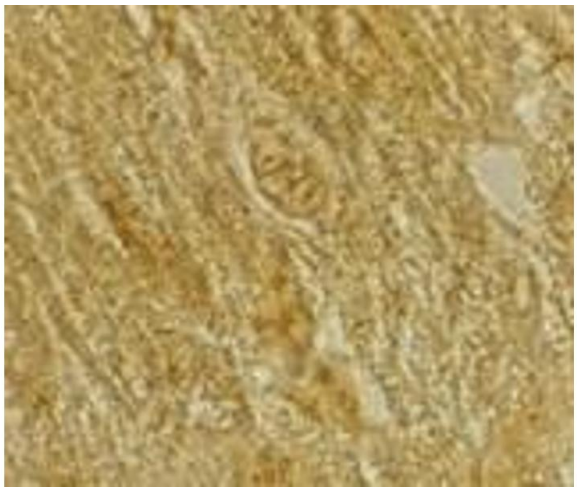
Background:	Accumulation of the amyloid-beta (alphabetaβ) plaque in the cerebral cortex is a critical event in the pathogenesis of Alzheimer's disease. alphabeta peptide is generated by proteolytic cleavage of the beta-amyloid protein precursor (APP) at beta- and gamma-sites by proteases. The long-sought beta-secretase was recently identified by several groups independently and designated beta-site APP cleaving enzyme (BACE) and aspartyl protease 2 (Asp2) (1-4). BACE/Asp2 is a novel transmembrane aspartic protease and co-localizes with APP. A BACE homolog was recently cloned and designated BACE2, Asp1, DRAP (for Down region aspartic protease), and memapsin 1 (4-9). BACE2 also cleaves APP at b-site and at a different site within alphabeta (8). BACE2 locates on chromosome 21q22.3, the so-called 'Down critical region', suggesting that BACE2 and alphabeta may also contribute to the pathogenesis of Down syndrome (6,7)Synonyms: AEPLC, ALP56, ASP1, ASP21, Aspartic-like protease 56 kDa, Aspartyl protease 1, Beta-secretase 2, Beta-site APP-cleaving enzyme 2, Down region aspartic protease, Memapsin-1, Membrane-associated aspartic protease 1
Gene ID:	25825
UniProt:	Q9Y5Z0

Application Details

Application Notes:	ELISA. Western Blot: BACE2 antibody can be used for detection of BACE2 at 0.5 to 1 µg/mL. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

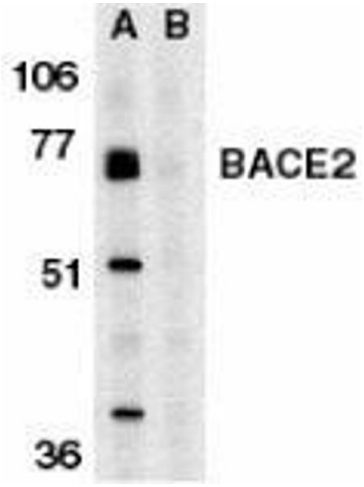
Handling

Buffer:	PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of BACE2 in rat heart tissue with BACE2 antibody at 2 µg/ml.



Western Blotting

Image 2. Western blot analysis of BACE2 in human heart tissue lysate in the absence (A) or presence (B) of blocking peptide with AP30113PU-N BACE2 antibody at 1 µg/ml.