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Datasheet for ABIN499395

anti-BACE2 antibody (N-Term)

2 Images

Overview

| | |
|----------------------|--|
| Quantity: | 0.1 mg |
| Target: | BACE2 |
| Binding Specificity: | N-Term |
| Reactivity: | Human, Rat, Mouse |
| 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 (N-Terminus) Peptide |
| Isotype: | IgG |
| Specificity: | BACE2 antibody was raised against a synthetic peptide corresponding to amino acids 44 to 59 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 (alphabeta) 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). 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 beta-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 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

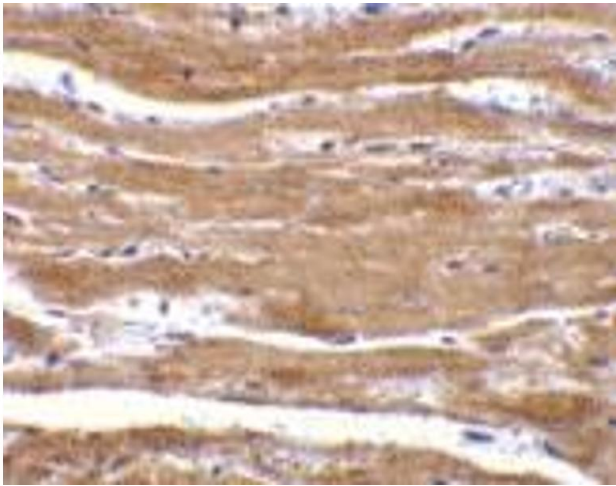
Buffer: PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

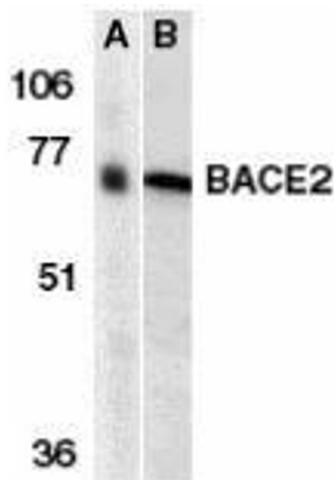
Storage: 4 °C

Storage Comment: Store the antibody undiluted at 2-8 °C.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of BACE2 in mouse heart with BACE2 antibody at 10 µg/ml.



Western Blotting

Image 2. Western blot analysis of BACE2 in human (A) and mouse (B) heart tissue lysates with AP30112PU-N BACE2 antibody at 1 µg/ml.