

Anti-BACE2/Asp1 (NT)

CATALOG No.: PX186A

0003D

SIZE: 100 µg

BACKGROUND:

LOT:

Accumulation of the amyloid- β (A β) plaque in the cerebral cortex is a critical event in the pathogenesis of Alzheimer's disease. A β peptide is generated by proteolytic cleavage of the β -amyloid protein precursor (APP) at β - and γ -sites by proteases. The long-sought β -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 β -site and at a different site within A β (8). BACE2 locates on chromosome 21q22.3, the so-called 'Down critical region', suggesting that BACE2 and A β may also contribute to the pathogenesis of Down syndrome (6,7)

SOURCE:

This rabbit polyclonal antibody was raised against a synthetic peptide (APTPGPGTPAERHADG) corresponding to amino acids 44 to 59 of human BACE2 (4).

APPLICATION:

This antibody can be used for detection of BACE2 by Western blot at 0.5 to 1 μ g/ml. Human heart tissue lysate can be used as positive control. It is human, mouse, and rat reactive. For research use only.

STORAGE:

It is supplied as immunoaffinity chromatography purified IgG, in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year. Azide free antibody is available.

RELATED PRODUCTS:

Blocking peptide, 50 μ g at 200 μ g/ml, is available for competition studies.

Human heart tissue lysate, 100 µg at 2 mg/ml, is available for positive control.



Western blot analysis of BACE2 in human (A) and mouse (B) heart tissue lysates with anti-BACE2 (CT) at 1 µg/ml.

REFERENCES:

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9. Bennett BD, et al. Expression analysis of BACE2 in brain and peripheral tissues. *J Biol Chem* 2000;275:20647-51

CAUTION: NOT FOR USE IN HUMANS. FOR RESEARCH PURPOSES ONLY.



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