

Code No. 18711

**Anti-Human  
BACE1 (C) Rabbit IgG Affinity Purify**Volume : 100 µg

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**BACE:  $\beta$ -site App cleaving enzyme**

**Introduction** : The current understanding of the role of amyloid in Alzheimer's disease (AD) has been established by a remarkable congruence of multiple disciplines: neuropathology, biochemistry, molecular biology, and epidemiological genetics. It is known that amyloid $\beta$  is derived, by two sequential cleavages, from the receptor-like amyloid precursor protein (APP). The proteases involved are beta-secretase, identified as the novel aspartyl protease BACE, and gamma-secretase, a multimeric complex containing the presenilins (PS-1, PS-2). BACE1 and BACE2 have been isolated as homologue of BACE. cer, degenerative neurological diseases (e.g. Alzheimer's disease), male sterility, etc.

**Antigen** : Synthetic peptide of the C terminal part of Human BACE1 (CLRQQHDDFADDISLLK)

**Purification** : Purified with antigen peptide

**Form** : Lyophilized product from PBS containing 1 % BSA and 0.05 % NaN<sub>3</sub>

**How to use** : 1.0 mL deionized water will be added to the product (the conc. comes up 100 µg /mL)

**Stability** : Lyophilized product, 5 years at 2 – 8 °C  
: Solution, 2 years at –20 °C

**Application** : This antibody can be used for immunohistochemistry with formalin fixed paraffin embedded tissues after microwave pre-treatment (for 10 min with 10m M citrate buffer, pH 6.0). The recommended concentration is 5 µg/mL, however, the concentration should be optimized by each laboratory.  
: This antibody can be used for western blotting in concentration of 2 µg /mL.  
: This antibody can be used for immuno-precipitation in concentration of about 2 µg /test.

**Specificity** : Cross-reacts with mouse and rat.

**Reference** : 1. Vassar R, Bennett BD, Babu-Khan S, Kahn S, Mendiaz EA, Denis P, Teplow DB, Ross S, Amarante P, Loeloff R, Luo Y, Fisher S, Fuller J, Edenson S, Lile J, Jarosinski MA, Biere AL, Curran E, Burgess T, Louis JC, Collins F, Treanor J, Rogers G, Citron M. Beta-secretase cleavage of Alzheimer's amyloid precursor protein by the transmembrane aspartic protease BACE. *Science*. 1999 Oct 22; 286(5440): 735-41.  
2. Yan R, Bienkowski MJ, Shuck ME, Miao H, Tory MC, Pauley AM, Brashier JR, Stratman NC, Mathews WR, Buhl AE, Carter DB, Tomasselli AG, Parodi LA, Heinrichson RL, Gurney ME. Membrane-anchored aspartyl protease with Alzheimer's disease beta-secretase activity. *Nature*. 1999 Dec 2; 402(6761): 533-7.

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*For research use only, not for use in diagnostic procedures.*

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