

Rabbit Anti-Human BACE-1 Polyclonal Antibody

Catalog No: CPB000

Size: 100 µl

Description: Beta site APP cleaving enzyme (BACE-1), also identified as beta-secretase, is an aspartyl protease. The mature form of the enzyme is an N-glycosylated integral membrane protein with $M_r=70$ kDa. The N-glycosylation and carbohydrate trimming of immature BACE-1 are observed to take place within the Golgi apparatus. BACE-1 cleaves Amyloid Precursor Protein (APP), generating two fragments, the APP N terminal fragment (APPs-beta) with $M_r=100$ kDa and a smaller C-terminal fragment with $M_r=12$ kDa (C99). Subsequent cleavage of the smaller fragment by gamma-secretase produces beta-amyloid (ABeta). Improperly regulated production of beta-amyloid leads to deposition of amyloid plaques found in Alzheimer's disease, a neurodegenerative, dementia-inducing disorder. Cross reactivity with BACE-2 is almost negligible.

Concentration: 0.1 mg/0.2 mL

Purity: Purified from rabbit serum by protein A/G affinity chromatography.

Immunogen: The antiserum was produced against the solubilized total recombinant protein.

Formulation: Rabbit polyclonal immunoglobulins in phosphate buffered saline, pH 7.2, with 1% bovine serum albumin. Preservation: 0.1% sodium azide. (**Caution:** sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.)

Cross-reactivity: Human. Other species were not tested.

Application: This antibody is suitable for use in Western blotting.

Working Dilutions: For Western blot applications, we recommend using the antibody at 0.25-1.0 µg/mL. The optimal antibody concentration should be determined for each specific application.

Storage: Aliquot into small volumes and store at -20°C. The antibody is stable for at least 6 months when stored appropriately. **Avoid repeated freeze-thaw cycles.**

Positive Control: SH-SY5Y neuroblastoma cell lysate.

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMAN DIAGNOSTIC OR THERAPEUTIC PROCEDURES.



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