

Anti-BACE (CT) Antibody

ORDERING INFORMATION

Catalog No.: 2253

Size: 100 ug IgG in 200 ul PBS, pH 7.4, purified by immunoaffinity chroma-tography.

BACKGROUND

Accumulation of the amyloid- β peptide ($A\beta$) in the cerebral cortex is a critical event in the pathogenesis of Alzheimer's disease. $A\beta$ peptide is generated as a result of proteolytic cleavage of the β -amyloid protein precursor (APP) at β - and γ -sites by two proteases. APP is first cleaved by β -secretase to produce a soluble derivative of the protein and a membrane-anchored 99-amino acid carboxy-terminal fragment (C99). The C99 fragment serves as substrate for γ -secretase to generate the 4 kD amyloid- β peptide which is found in brains of patients with Alzheimer's disease. β -secretase was recently identified and designated beta-site APP cleaving enzyme (BACE) and aspartyl protease 2 (Asp2). BACE/Asp2 is a transmembrane aspartic protease and co-localizes with APP.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.

SPECIFICATION SUMMARY

Antigen: Peptide corresponding to aa 485-501 of human BACE. This sequence differs from those of mouse and rat by one amino acid.

Host Species: Rabbit

Stabilizers: None

Preservatives: 0.02% sodium azide.

SPECIFICITY

This antibody recognizes human and mouse BACE (approx. 70 kD).

APPLICATIONS

Immunoblotting: use at 1:500-1:1,000 dilution.

Positive control: Human brain tissue lysate.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C . Avoid multiple freeze-thaw cycles.