

## Anti-BACE2 (CT) Antibody

### ORDERING INFORMATION

**Catalog No.:** 2249

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

### BACKGROUND

Accumulation of the amyloid- $\beta$  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  $\beta$ -amyloid protein precursor (APP) at  $\beta$ - and  $\gamma$ -sites.  $\beta$ -secretase was recently identified and designated beta-site APP cleaving enzyme (BACE) and aspartyl protease 2 (Asp2). A BACE homolog was recently identified and designated BACE2, or Asp1, DRAP (for Down region aspartic protease), or memapsin 1. BACE2 cleaves APP at the  $\beta$ -site and at a different site within  $A\beta$ . BACE2 is found on chromosome 21q22.3, the 'Down critical region', suggesting that BACE2 and  $A\beta$  may also contribute to the pathogenesis of Down syndrome.

### SPECIFICATION SUMMARY

**Antigen:** Peptide corresponding to aa 496-511 of human BACE2.

**Host Species:** Rabbit

**Stabilizers:** None

**Preservatives:** 0.02% sodium azide.

### SPECIFICITY

This antibody recognizes human BACE2 (approx. 75 kD).

### APPLICATIONS

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

*Positive control:* Human heart 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  $-20^{\circ}\text{C}$ . Avoid multiple freeze-thaw cycles.

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