**Beta-secretase 2 (CT). Rabbit Polyclonal Antibody**

**AEPLC, ALP56, ASP21, Rabbit anti-β site APP (Amyloid β precursor protein) Cleaving Enzyme-2 (C-Terminal),**

**BACKGROUND**

Accumulation of the amyloid-β (Aβ) plaque in the cerebral cortex is a critical event in the pathogenesis of Alzheimer’s disease. Aβ 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\(^5\)\(^-\)\(^9\). BACE2 also cleaves APP at β-site and at a different site within Aβ\(^8\). BACE2 locates on chromosome 21q22.3, the so-called ‘Down critical region’, suggesting that BACE2 and Aβ may also contribute to the pathogenesis of Down syndrome\(^6\)\(^,\)\(^7\).

**IMMUNOGEN**

Synthetic peptide corresponding to amino acids 496 to 511 of human BACE2

**ORDERING INFORMATION**

**CATALOG NUMBER**

X1137P

**SIZE**

100 µg

**FORM**

Unconjugated

**HOST/CLONE**

Rabbit

**FORMULATION**

Provided in phosphate buffered saline solution containing 0.02% sodium azide as a preservative

**CONCENTRATION**

See vial for concentration

**ISOTYPE**

IgG

**APPLICATIONS**

Western Blot

**SPECIES Reactivity**

Human

**ACCESSION NUMBER**

Human Q9Y5Z0

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Western blot analysis using BACE2 (CT) antibody (Cat. No. X1137P) on human heart tissue lysate in the absence (1) and presence (2) of blocking peptide.
**POSITIVE CONTROL/TISSUE EXPRESSION**

Human heart tissue lysate

**COMMENTS**

Detects BACE2 by Western blot at 0.5 to 1 µg/ml. Detects an approximately 70 kDa band in human heart tissue lysate. Optimal concentration should be evaluated by serial dilutions.

**PURIFICATION**

Antigen Immunoaffinity Purification

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at -20ºC. Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**


**PRODUCT SPECIFIC REFERENCES**