

AP13070PU-N**Polyclonal Antibody to BACE2 (Isoform C) (C-term) - Purified****Alternate names:**

AEPLC, ALP56, ASP1, ASP21, Aspartic-like protease 56 kDa, Aspartyl protease 1, Beta-secretase 2, Beta-site APP-cleaving enzyme 2, Beta-site APP-cleaving enzyme 2, Down region aspartic protease, Memapsin-1, Membrane-associated aspartic protease 1

Quantity:

0.4 ml

Concentration:

lot specific

Background:

Amyloid-beta peptide aggregation is a signature of Alzheimer disease and a frequent complication of adult Down syndrome patients. Amyloid-beta is generated by proteolytic processing of the amyloid precursor protein (APP) by beta- and gamma-secretase at the N and C termini, respectively. Presenilin-1 is involved in the gamma-secretase activity. BACE is a transmembrane aspartyl protease with beta-secretase activity. BACE2, also termed ALP56 has 2 pepsin-like active centers, a signal sequence, a propeptide, and a long C-terminal extension including a transmembrane domain, with expression in a wide array of tissues. Northern blot analysis revealed low expression of 2.0- and 2.6-kb BACE2 transcripts in most fetal and adult tissues, with higher expression in adult colon, kidney, pancreas, placenta, prostate, stomach, and trachea. Low levels were also detected in brain, with somewhat higher expression in medulla and spinal cord. In situ hybridization analysis of rat brain found low-level BACE2 expression in contrast to BACE expression. The BACE2 expression pattern does not appear to be consistent with that of a beta-secretase. BACE2 has been mapped to 21q22.3, within the Down syndrome critical region.

Uniprot ID:

[Q9Y5Z0](#)

NCBI:

[9606](#)

GeneID:

[25825](#)

Host / Isotype:

Rabbit / Ig

Immunogen:

KLH conjugated synthetic peptide selected from the C-terminal region of human BACE2C

Format:

State: Liquid purified Ig

Purification: Affinity chromatography on Protein G

Buffer System: PBS with 0.09% (W/V) sodium azide

Applications:

ELISA: 1/1,000.

Western blot: 1/100 - 1/500.

Immunohistochemistry on paraffin sections: 1/50 - 1/100.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody reacts to BACE2C.

Species: Human.

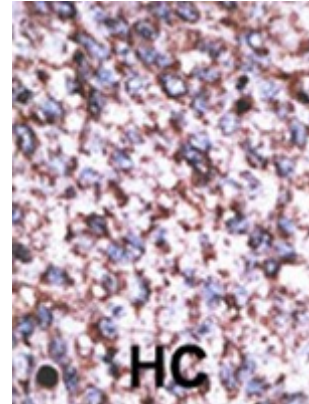
Other species not tested.

Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
 Avoid repeated freezing and thawing.
 Shelf life: one year from despatch.

Pictures:

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry.



The anti-BACE2C C-term Pab (AP13070PU-N) is used in Western blot to detect BACE2C in A549 cell lysate.

