**Product Name: BACE Rabbit Polyclonal Antibody**
**Catalog #: APRab07417**

## Summary

| | |
|---|---|
| **Production Name** | BACE Rabbit Polyclonal Antibody |
| **Description** | Rabbit Polyclonal Antibody |
| **Host** | Rabbit |
| **Application** | IHC,IF,ELISA |
| **Reactivity** | Human,Mouse,Rat |

## Performance

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|---|---|
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | IgG |
| **Clonality** | Polyclonal |
| **Form** | Liquid |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| **Buffer** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N. |
| **Purification** | Affinity purification |

## Immunogen

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|---|---|
| **Gene Name** | BACE1 |
| **Alternative Names** | BACE1; BACE; KIAA1149; Beta-secretase 1; Aspartyl protease 2; ASP2; Asp 2; Beta-site amyloid precursor protein cleaving enzyme 1; Beta-site APP cleaving enzyme 1; Memapsin-2; Membrane-associated aspartic protease 2 |
| **Gene ID** | 23621.0 |
| **SwissProt ID** | P56817.The antiserum was produced against synthesized peptide derived from human BACE. AA range:452-501 |

## Application

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|---|---|
| **Dilution Ratio** | IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications. |
| **Molecular Weight** | |

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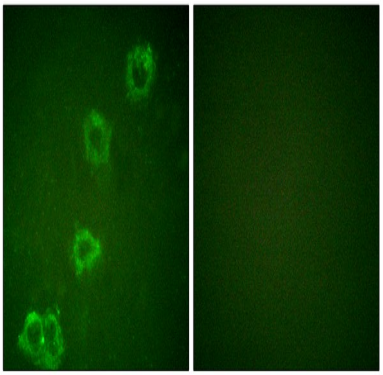
## Background

beta-secretase 1(BACE1) Homo sapiens  This gene encodes a member of the peptidase A1 family of aspartic proteases. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protease. This transmembrane protease catalyzes the first step in the formation of amyloid beta peptide from amyloid precursor protein. Amyloid beta peptides are the main constituent of amyloid beta plaques, which accumulate in the brains of human Alzheimer's disease patients. [provided by RefSeq, Nov 2015],catalytic activity:Broad endopeptidase specificity. Cleaves Glu-Val-Asn-Leu-|-Asp-Ala-Glu-Phe in the Swedish variant of Alzheimer's amyloid precursor protein.,enzyme regulation:Inhibited by RTN3 and RTN4.,function:Responsible for the proteolytic processing of the amyloid precursor protein (APP). Cleaves at the N-terminus of the A-beta peptide sequence, between residues 671 and 672 of APP, leads to the generation and extracellular release of beta-cleaved soluble APP, and a corresponding cell-associated C-terminal fragment which is later released by gamma-secretase.,similarity:Belongs to the peptidase A1 family.,subunit:Monomer. Interacts with GGA1, GGA2 and GGA3. Interacts with RTN3 and RTN4.,tissue specificity:Brain.,

## Research Area

Alzheimer's disease;

## Image Data



Immunofluorescence analysis of HUVEC cells, using BACE Antibody. The picture on the right is blocked with the synthesized peptide.

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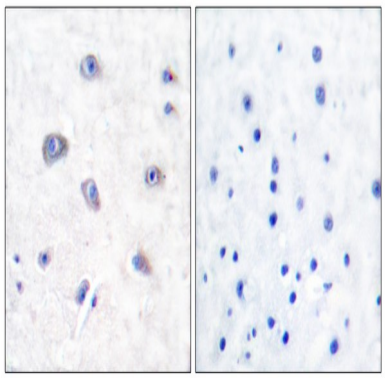

Immunohistochemistry analysis of paraffin-embedded human brain tissue, using BACE Antibody. The picture on the right is blocked with the synthesized peptide.

## Note

For research use only.