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# Anti-BACE1 / BACE Antibody (N-Terminus)
**Rabbit Anti Human Polyclonal Antibody**
**Catalog # ALS17370**

## Specification

### Anti-BACE1 / BACE Antibody (N-Terminus) - Product Information

| | |
|---|---|
| Application | **IHC-P** |
| Primary Accession | P56817 |
| Predicted | **Human, Rat, Monkey** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **55764** |

### Anti-BACE1 / BACE Antibody (N-Terminus) - Additional Information

**Gene ID** 23621

| | |
|---|---|
| Alias Symbol | **BACE1** |

**Other Names**
BACE1, APP beta-secretase, Asp 2, ASP2, Aspartyl protease 2, Aspartylprotease 2, Beta-secretase, Beta-site APP-cleaving enzyme, BACE, HSPC104, KIAA1149, B-Secretase, Beta-secretase 1, Memapsin-2

**Target/Specificity**
Human BACE1. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except ZBTB47 (44%).

**Reconstitution & Storage**
PBS, less than 0.1% sodium azide. Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze thaw cycles.

**Precautions**
Anti-BACE1 / BACE Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

### Anti-BACE1 / BACE Antibody (N-Terminus) - Protein Information

**Name** BACE1 (HGNC:933)

**Synonyms** BACE, KIAA1149

**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 (PubMed:<a href="http://www.uniprot.org/citations/10656250" target="_blank">10656250</a>, PubMed:<a href="http://www.uniprot.org/citations/10677483" target="_blank">10677483</a>, PubMed:<a

href="http://www.uniprot.org/citations/20354142" target="_blank">20354142</a>). Cleaves CHL1 (By similarity).

**Cellular Location**
Cell membrane; Single-pass type I membrane protein Golgi apparatus, trans-Golgi network. Endoplasmic reticulum. Endosome. Cell surface. Cytoplasmic vesicle membrane; Single-pass type I membrane protein. Membrane raft {ECO:0000250|UniProtKB:P56818}. Lysosome. Late endosome. Early endosome. Recycling endosome. Cell projection, axon {ECO:0000250|UniProtKB:P56818}. Cell projection, dendrite {ECO:0000250|UniProtKB:P56818}. Note=Predominantly localized to the later Golgi/trans-Golgi network (TGN) and minimally detectable in the early Golgi compartments. A small portion is also found in the endoplasmic reticulum, endosomes and on the cell surface (PubMed:17425515, PubMed:11466313). Colocalization with APP in early endosomes is due to addition of bisecting N-acetylglucosamine wich blocks targeting to late endosomes and lysosomes (By similarity) Retrogradly transported from endosomal compartments to the trans-Golgi network in a phosphorylation- and GGA1- dependent manner (PubMed:15886016). {ECO:0000250|UniProtKB:P56818, ECO:0000269|PubMed:11466313, ECO:0000269|PubMed:15886016, ECO:0000269|PubMed:17425515}

**Tissue Location**
Expressed at high levels in the brain and pancreas. In the brain, expression is highest in the substantia nigra, locus coruleus and medulla oblongata.

## Anti-BACE1 / BACE Antibody (N-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Anti-BACE1 / BACE Antibody (N-Terminus) - Images