

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:10656250, PubMed:10677483, PubMed:20354142). 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 Cytometry](#)
- [Cell Culture](#)

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