

Anti-BACE1 (AcK316) Antibody

Rabbit polyclonal antibody to BACE1 (AcK316)

Catalog # AP61373

Product Information

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|-------------------|------------------------|
| Application | WB |
| Primary Accession | P56817 |
| Other Accession | P56818 |
| Reactivity | Human, Mouse, Bovine |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 55764 |

Additional Information

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|--------------------|---|
| Gene ID | 23621 |
| Other Names | 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 |
| Target/Specificity | Recognizes endogenous levels of BACE1 (AcK316) protein. |
| Dilution | WB~~WB (1/500 - 1/1000) |
| Format | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide. |
| Storage | Store at -20 °C.Stable for 12 months from date of receipt |

Protein Information

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|-------------------|--|
| 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:11466313, PubMed:17425515). Colocalization with APP in early endosomes is due to addition of bisecting N-acetylglucosamine which 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}

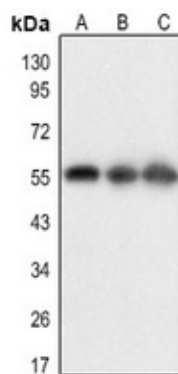
Tissue Location

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

Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human BACE1 (Ack316). The exact sequence is proprietary.

Images



Western blot analysis of BACE1 (Ack316) expression in MCF7 (A), SKOVCAR3 (B), mouse brain (C) whole cell lysates.

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