10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Bace1 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI12723

Specification

Bace1 antibody - middle region - Product Information

Application	**WB**
Primary Accession	P56818
Other Accession	NM_011792, NP_035922
Reactivity	**Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Chicken, Horse, Bovine, Guinea Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**56kDa KDa**

Bace1 antibody - middle region - Additional Information

Gene ID 23821

Alias Symbol	**C76936**

Other Names
Beta-secretase 1, 3.4.23.46, 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, Bace1, Bace

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-Bace1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
Bace1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Bace1 antibody - middle region - Protein Information

Name Bace1 {ECO:0000312|MGI:MGI:1346542}

Synonyms Bace

Function
Responsible for the proteolytic processing of the amyloid precursor protein (APP) (PubMed:29325091). 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:29325091). Cleaves CHL1 (PubMed:29325091).

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:P56817}; Single-pass type I membrane protein. Golgi apparatus, trans-Golgi network. Endoplasmic reticulum {ECO:0000250|UniProtKB:P56817}. Endosome. Late endosome. Early endosome. Cell surface. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:P56817}. Membrane raft. Lysosome Recycling endosome. Cell projection, axon. Cell projection, dendrite. 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 (By similarity). Colocalization with APP in early endosomes is due to addition of bisecting N-acetylglucosamine wich blocks targeting to late endosomes and lysosomes (PubMed:25592972). Retrogradly transported from endosomal compartments to the trans-Golgi network in a phosphorylation- and GGA1- dependent manner (By similarity) {ECO:0000250|UniProtKB:P56817, ECO:0000269|PubMed:25592972}

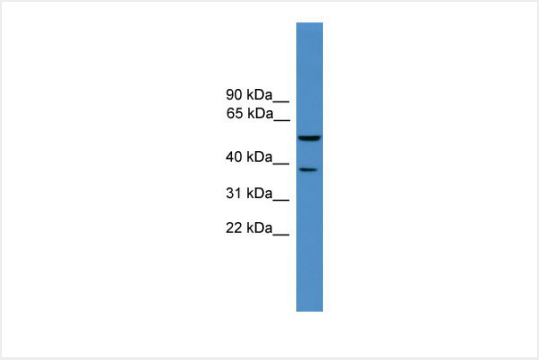
Tissue Location
Expressed in the brain, specifically in neurons and astrocytes (at protein level).

Bace1 antibody - middle region - 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

Bace1 antibody - middle region - Images



WB Suggested Anti-Bace1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:1562500
Positive Control: Mouse Heart