BACE Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	BACE, Polyclonal Antibody
Full Product Name	BACE Polyclonal Antibody
Product Gene Name	anti-BACE antibody
Product Synonym Gene Name	BACE1 BACE KIAA1149
Clonality	Polyclonal
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
OMIM	604252
3D Structure	ModBase 3D Structure for P56817
Immunogen	Synthesized peptide derived from human BACE
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-BACE antibody	MBS8537520 is an antibody targeting BACE. Also known as BACE Polyclonal Antibody. Reactive in Human, Mouse, Rat. This antibody detects endogenous levels of human BACE
Other Notes	Small volumes of anti-BACE antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BACE. It may not necessarily be applicable to this product.

NCBI GI #	333440466
NCBI GeneID	23621
NCBI Accession #	NP_001193977.1
UniProt Primary Accession #	P56817
UniProt Related Accession #	P56817
GenBank Nucleotide #	NP_001193977.1
NCBI Official Full Name	beta-secretase 1 isoform E
NCBI Official Synonym Full Names	beta-secretase 1
NCBI Official Symbol	BACE1
NCBI Official Synonym Symbols	ASP2; BACE; HSPC104
UniProt Protein Name	Beta-secretase 1
UniProt Synonym Protein Names	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
Protein Family	Beta-secretase
UniProt Gene Name	BACE1

UniProt Synonym Gene Names	BACE; KIAA1149; ASP2; Asp 2
UniProt Entry Name	BACE1_HUMAN
NCBI Protein Information	beta-secretase 1
NCBI Summary for BACE	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]
UniProt Comments for BACE	BACE: an integral membrane glycoprotein and aspartic protease that is found mainly in the Golgi. Cleaves APP at the amino terminus of the A-beta peptide sequence, leading to the generation and extracellular release of beta-cleaved soluble APP, and a corresponding cell-associated carboxy-terminal fragment which is later release by gamma-secretase. Four splice-variant isoforms have been described. Protein type: Protease; EC 3.4.23.46; Membrane protein, integral Chromosomal Location of Human Ortholog: 11q23.2-q23.3 Cellular Component: multivesicular body; Golgi apparatus; cell surface; cytoplasmic vesicle membrane; integral to plasma membrane; axon; endoplasmic reticulum; late endosome; integral to membrane; plasma membrane; trans-Golgi network; endosome Molecular Function: protein binding; enzyme binding; beta-amyloid binding; beta-aspartyl-peptidase activity; aspartic-type endopeptidase activity Biological Process: beta-amyloid metabolic process; membrane protein ectodomain proteolysis; proteolysis
Research Articles on BACE	**1.** the inhibition of APPswe-induced secretion of inflammatory cytokines and the suppression of NF-kappaB activation by miR-15b were validated...Our study suggests that miR-15b inhibits Abeta accumulation through targetting NF-kappaB signaling and BACE1 and serves as a potential molecular target for Alzheimer's disease (AD) therapy
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