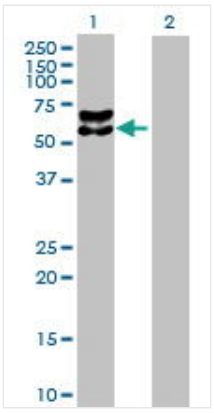
BACE1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BACE1, Polyclonal Antibody
Full Product Name	BACE1 (Beta-secretase 1, Aspartyl Protease 2, ASP2, sp 2, Beta-site Amyloid Precursor Protein Cleaving Enzyme 1, Beta-site APP Cleaving Enzyme
Product Gene Name	anti-BACE1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human BACE1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor
OMIM	604252
3D Structure	ModBase 3D Structure for P56817
Immunogen	Full length human BACE1, aa1-476 (NP_620428.1).
Immunogen Sequence	MAQALPWLLLWMGAGVLPAHGTQHGIRLPLRSGLGGAPLGLRLPRETDEEPEEPGRRGSFVEMVDNLRGKSGQGYYVEMTVGSPPQTLNILVDTGSSN
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-BACE1 antibody	Antibodies; Apoptosis
Applications Tested/Suitable for anti-BACE1 antibody	Western Blot (WB)
Application Notes for anti-BACE1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-BACE1 antibody	ASP2 is an early and critical feature of Alzheimer's disease. Amyloid beta peptide is generated by proteolytic cleavage of amyloid precursor protein (AP of beta-cleaved soluble APP, and a corresponding cell-associated C-terminal fragment which is later released by gamma-secretase.
Other Notes	Small volumes of anti-BACE1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces

Searchable Terms for BACE1 purchase	MBS6370894 is an antibody targeting BACE1. Also known as BACE1 (Beta-secretase 1, Aspartyl Protease 2, ASP2, sp 2, Beta-site Amyloid Precurso



Western Blot (WB) of anti-BACE1 antibody
Western Blot analysis of BACE1 expression in transfected 293T cell line by BACE1 polyclonal antibody. Lane 1: BACE1 transfected lysate (52.9kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BACE1. It may not necessarily be applicable to this product.

NCBI GI #	21040366
NCBI GeneID	23621
NCBI Accession #	NP_620428.1
UniProt Primary Accession #	P56817
UniProt Related Accession #	P56817
GenBank Nucleotide #	NM_138972
NCBI Official Full Name	beta-secretase 1 isoform B
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 BACE1	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 BACE1	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 BACE1	**1.** Low BACE1 expression is associated with Gastric Cancer.
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