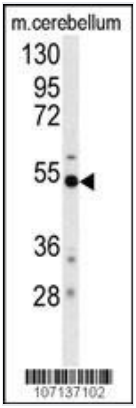
BACE Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BACE, Polyclonal Antibody
Full Product Name	BACE (S498) (Beta-secretase 1, Beta-site APP Cleaving Enzyme 1, Beta-site Amyloid Precursor Protein Cleaving Enzyme 1, Aspartyl Protease 2, Asp 2, ASP2, Membrane-associated Aspartic Protease 2, Memapsin-2, BACE1, BACE, KIAA1149) (MaxLight 750)
Product Gene Name	anti-BACE antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human BACE. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	42,107 Da
OMIM	604252
3D Structure	ModBase 3D Structure for P56817
Immunogen	Synthetic peptide corresponding to amino acid residues surrounding S498 of human BACE (KLH).
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-BACE antibody	Antibodies; Apoptosis
Applications Tested/Suitable for anti-BACE antibody	Western Blot (WB), FLISA
Application Notes for anti-BACE antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-BACE antibody	MBS6464638 is an antibody targeting BACE. Also known as BACE (S498) (Beta-secretase 1, Beta-site APP Cleaving Enzyme 1, Beta-site Amyloid Precursor Protein Cleaving Enzyme 1, Aspartyl Protease 2, Asp 2, ASP2, Membrane-associated Aspartic Protease 2, Memapsin-2, BACE1, BACE, KIAA1149) (MaxLight 750). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-BACE antibody	1. Xie, J., et al., J. Biol. Chem. 280(14):13824-13832 (2005). 2. He, X., et al., J. Biol. Chem. 280(12):11696-11703 (2005). 3. Huang, X.P., et al., J. Biol. Chem. 279(36):37886-37894 (2004). 4. Chiocco, M.J., et al., J. Biol. Chem. 279(50):52535-52542 (2004). 5. Yang, H.C., et al., J. Neurochem. 91(6):1249-1259 (2004).
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.



Western Blot (WB) of anti-BACE antibody
Western blot analysis of anti-BACE Antibody (S498) in mouse cerebellum tissue lysates (35ug/lane). BACE (arrow) was detected using the purified Pab.

ADDITIONAL DETAILS

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

NCBI GI #	6912266
NCBI GeneID	23621
NCBI Accession #	NP_036236
UniProt Primary Accession #	P56817
UniProt Secondary Accession #	Q9BYB9; Q9BYC0; Q9BYC1; Q9UJT5; Q9ULS1; A0M8W7; B0YIU9; E9PE65; H7BXJ9
UniProt Related Accession #	P56817
GenBank Nucleotide #	NM_012104
NCBI Official Full Name	beta-secretase 1 isoform A preproprotein
NCBI Official Synonym Full Names	beta-site APP-cleaving enzyme 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; APP beta-secretase; asp 2; aspartyl protease 2; beta-secretase 1 precursor variant 1; beta-site APP cleaving enzyme 1; beta-site amyloid beta A4 precursor protein-cleaving enzyme; memapsin-2; membrane-associated aspartic protease 2; tran

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
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