



## BACE1 peptide (DAG-P0180)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	Cerebral deposition of amyloid beta peptide is an early and critical feature of Alzheimers disease. Amyloid beta peptide is generated by proteolytic cleavage of amyloid precursor protein (APP) by two proteases, one of which is the protein encoded by this gene. The encoded protein, a member of the peptidase A1 protein family, is a type I integral membrane glycoprotein and aspartic protease that is found mainly in the Golgi. Multiple transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, May 2011]
<b>Specificity</b>	Expressed at high levels in the brain and pancreas. In the brain, expression is highest in the substantia nigra, locus coruleus and medulla oblongata.
<b>Purity</b>	> 95 % by SDS-PAGE.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA, WB
<b>Sequence Similarities</b>	Belongs to the peptidase A1 family.
<b>Format</b>	Liquid
<b>Buffer</b>	Preservative: None Constituents: 0.001% Tween 20, 30mM HEPES, 2mM EDTA, 150mM Sodium chloride, pH 6.75
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Preservative: None Constituents: 0.001% Tween 20, 30mM HEPES, 2mM EDTA, 150mM Sodium chloride, pH 6.75

### GENE INFORMATION

<b>Gene Name</b>	<a href="#">BACE1 beta-site APP-cleaving enzyme 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	BACE1
<b>Synonyms</b>	BACE1; beta-site APP-cleaving enzyme 1; ASP2; BACE; HSPC104; beta-secretase 1; asp 2; memapsin-2; APP beta-secretase; aspartyl protease 2; beta-site APP cleaving enzyme 1; beta-secretase 1 precursor variant 1; transmembrane aspartic proteinase Asp2; membrane-associated aspartic protease 2; beta-site amyloid beta A4 precursor protein-cleaving enzyme;
<b>Entrez Gene ID</b>	<a href="#">23621</a>
<b>mRNA Refseq</b>	<a href="#">NM_001207048.1</a>
<b>Protein Refseq</b>	<a href="#">NP_001193977.1</a>
<b>UniProt ID</b>	B7Z3Z4
<b>Chromosome Location</b>	11q23.2-q23.3
<b>Pathway</b>	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Alzheimers Disease, organism-specific biosystem;
<b>Function</b>	aspartic-type endopeptidase activity; beta-amyloid binding; beta-aspartyl-peptidase activity; enzyme binding; protein binding;