



# Rabbit Anti-Human BACE1 Polyclonal Antibody (CABT-L524)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	This antibody can specifically detect human BACE1. Sequence homology predicts that it will also react with mouse, rat, and bovine BACE1.
<b>Immunogen</b>	A synthetic peptide (KLH conjugated), CLRQQHDDFADDISLLK, corresponding to amino acids 485-501 at C-terminal of human BACE1.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Purification</b>	Affinity Purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA, WB Recommended concentration: ELISA: 0.05-0.2 µg/ml Western blot: 0.1-1 µg/ml
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	40 µg
<b>Buffer</b>	PBS, pH 7.4, containing 30% glycerol, and 0.02% sodium azide.
<b>Preservative</b>	0.02% Sodium Azide

<b>Storage</b>	The antibody is stable for 2-3 weeks if stored at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	$\beta$ -secretase, also called BACE ( $\beta$ -site of APP cleaving enzyme), is an aspartic-acid protease important in the pathogenesis of Alzheimers disease, and in the formation of myelin sheaths in peripheral nerve cells. BACE1, also known as memapsin-2, is the major $\beta$ -secretase for generation of the 40 or 42 amino acid-long $\beta$ -amyloid peptides that aggregate in the brain of Alzheimers patients. Extracellular cleavage of APP by BACE1 releases a soluble extracellular fragment and is followed by APP cleavage within its transmembrane domain by $\gamma$ -secretase. The second cleavage releases the intracellular domain of APP and $\beta$ -amyloid.
<b>Keywords</b>	BACE1;beta-site APP-cleaving enzyme 1;BACE, beta site APP cleaving enzyme; beta-secretase 1;asp 2;memapsin-2

## GENE INFORMATION

<b>Gene Name</b>	BACE1
<b>Entrez Gene ID</b>	<a href="#">23621</a>
<b>UniProt ID</b>	<a href="#">P56817</a>