

Rabbit Anti-BACE2 antibody

SL10494R

Product Name BACE2

Chinese Name β 淀粉样前体蛋白裂解酶 2 抗体

Alias

ALP 56; ALP-56; ALP56; ALP56; Asp 1; ASP1; ASP1; ASP21; Aspartic Like Protease 56kDa; Aspartic Like Protease 56kDa; Aspartic-like protease 56 kDa; Aspartyl protease 1; Aspartyl protease 1; BACE 2; BACE 2; Bace2; BACE2_HUMAN; Beta Secretase 2; Beta Secretase 2; Beta Site Amyloid Beta A4 Precursor Protein Cleaving Enzyme 2; Beta Site Amyloid Beta A4 Precursor Protein Cleaving Enzyme 2; Beta-secretase 2; Beta-site amyloid precursor protein cleaving enzyme 2; Beta-site APP cleaving enzyme 2; Beta-site APP cleaving enzyme 2; Down region aspartic protease; Down region aspartic protease; Downs Syndrome Region Aspartic Protease; Downs Syndrome Region Aspartic Protease; DRAP; Memapsin 1; Memapsin1; Memapsin-1; Membrane associated aspartic protease 1; Membrane-associated aspartic protease 1; Theta-secretase.

Immunogen Species

Rabbit

Clonality

Polyclonal

React Species

(predicted: Human, Mouse, Rat, Dog, Pig, Cow, Sheep,)

Applications

IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
(Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight

50kDa

Cellular localization

The cell membrane

Form

Liquid

Concentration

1mg/ml

immunogen

KLH conjugated synthetic peptide derived from human BACE2: 101-200/518 <Extracellular>

Lsotype

IgG

Purification

affinity purified by Protein A

Buffer Solution

1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.



Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed Cerebral deposition of amyloid beta peptide is an early and critical feature of Alzheimer's disease and a frequent complication of Down syndrome. Amyloid beta peptide is generated by proteolytic cleavage of amyloid precursor protein by 2 proteases, one of which is the protein encoded by this gene. This gene localizes to the 'Down critical region' of chromosome 21. The encoded protein, a member of the peptidase A1 protein family, is a type I integral membrane glycoprotein and aspartic protease. Three transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008].
	Function: Responsible for the proteolytic processing of the amyloid precursor protein (APP). Cleaves APP, between residues 690 and 691, leading to the generation and extracellular release of beta-cleaved soluble APP, and a corresponding cell-associated C-terminal fragment which is later released by gamma-secretase. It has also been shown that it can cleave APP between residues 671 and 672.
	Subunit: Monomer. Interacts with RTN3 and RTN4.
Product Detail	Subcellular Location: Membrane. Golgi apparatus. Endoplasmic reticulum. Endosome. Cell surface.
	Tissue Specificity: Brain. Present in neurons within the hippocampus, frontal cortex and temporal cortex (at protein level). Expressed at low levels in most peripheral tissues and at higher levels in colon, kidney, pancreas, placenta, prostate, stomach and trachea. Expressed at low levels in the brain. Found in spinal cord, medulla oblongata, substantia nigra and locus coeruleus. Expressed in the ductal epithelium of both normal and malignant prostate.
	Post-translational modifications: Undergoes autoproteolytic cleavage. Glycosylated.
	Similarity: Belongs to the peptidase A1 family.
	SWISS: Q9Y5Z0
	Gene ID:



25825

Database links:

[Entrez Gene: 25825](#) Human

[Entrez Gene: 56175](#) Mouse

[Entrez Gene: 288227](#) Rat

[Omid: 605668](#) Human

[SwissProt: Q9Y5Z0](#) Human

[SwissProt: Q9JL18](#) Mouse

[SwissProt: Q6IE75](#) Rat

[Unigene: 529408](#) Human

[Unigene: 97885](#) Mouse

[Unigene: 38581](#) Rat