

## Product datasheet for TA306032

### BACE2 Rabbit Polyclonal Antibody

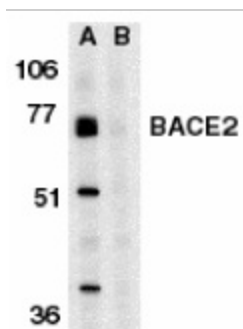
#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommend Dilution:	WB: 1 ug/mL, ICC: 2 ug/mL
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	BACE2 antibody was raised against a peptide corresponding to amino acids near the carboxy terminus of human BACE2.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Gene Name:	beta-site APP-cleaving enzyme 2
Database Link:	<a href="#">NP_036237 Entrez Gene 25825 Human</a>
Background:	Accumulation of the amyloid-beta (alphabeta) plaque in the cerebral cortex is a critical event in the pathogenesis of Alzheimer's disease. alphabeta peptide is generated by proteolytic cleavage of the $\beta$ -amyloid protein precursor (APP) at beta- and gamma-sites by proteases. The long-sought $\beta$ -secretase was recently identified by several groups independently and designated beta-site APP cleaving enzyme (BACE) and aspartyl protease 2 (Asp2) (1-4). BACE/Asp2 is a novel transmembrane aspartic protease and co-localizes with APP. A BACE homolog was recently cloned and designated BACE2, Asp1, DRAP (for Down region aspartic protease), and memapsin 1 (4-9). BACE2 also cleaves APP at b-site and at a different site within alphabeta (8). BACE2 locates on chromosome 21q22.3, the so-called 'Down critical region', suggesting that BACE2 and alphabeta may also contribute to the pathogenesis of Down syndrome (6,7)
Synonyms:	AEPLC; ALP56; ASP1; ASP21; BAE2; CDA13; CEAP1; DRAP
Protein Families:	Druggable Genome, Protease, Transmembrane
Protein Pathways:	Alzheimer's disease

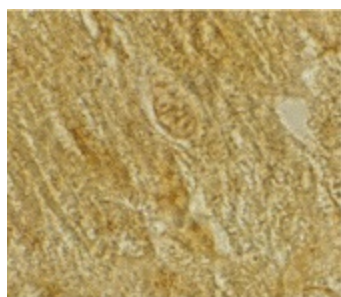


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## Product images:



Western blot analysis of BACE2 in human heart tissue lysate in the absence (A) or presence (B) of blocking peptide with BACE2 antibody at 1 ug/ml.



Immunohistochemistry of BACE2 in rat heart tissue with BACE2 antibody at 2 ug/ml.