

Product datasheet for **TA306033**

BACE1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, ICC, IF, IHC, WB
Recommended Dilution:	WB: 1 µg/mL; IHC-P: 2.5 µg/mL; ICC: 10 µg/mL; IF: 20 µg/mL. Antibody validated: Western Blot in human and mouse samples; Immunohistochemistry, Immunocytochemistry and Immunofluorescence in mouse samples. All other applications and species not yet tested.
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	BACE antibody was raised against a peptide corresponding to 17 amino acids at the carboxy terminus of human BACE.
Formulation:	PBS containing 0.02% sodium azide.
Purification:	BACE Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	beta-secretase 1
Database Link:	AF190725 Entrez Gene 23621 Human P56817



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Background:

Accumulation of the amyloid- β (Ab) plaque in the cerebral cortex is a critical event in the pathogenesis of Alzheimer's disease. Ab peptide is generated by proteolytic cleavage of the β -amyloid protein precursor (APP) at β - and γ -sites by two proteases. APP is first cleaved by β -secretase, producing a soluble derivative of the protein and a membrane anchored 99-amino acid carboxy-terminal fragment (C99). The C99 fragment serves as substrate for γ -secretase to generate the 4 kDa amyloid- β peptide, which is deposited in the brains of all sufferers of Alzheimer's disease. The long-sought β -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 colocalizes with APP.

Synonyms:

ASP2; BACE; HSPC104