

Human beta-site APP-Cleaving Enzyme 1 ELISA Kit | 1BACE1 elisa kit

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CATALOG #
AAA83356

REACTIVITY
Human

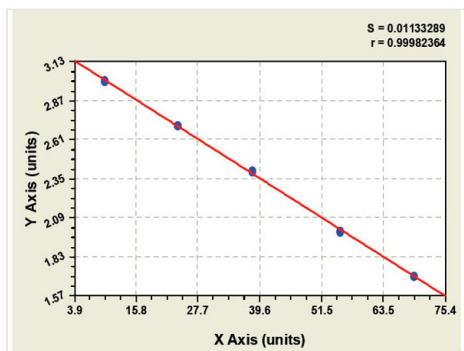
PRODUCT SYNONYMS

beta-site APP-Cleaving Enzyme 1; Human beta-site APP-Cleaving Enzyme 1 ELISA Kit; b-site APP-Cleaving Enzyme 1; beta-site APP-Cleaving Enzyme 1 (Human); 1BACE1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Sensitivity	1.0 ng/mL.
Preparation and Storage	Store all reagents at 2-8 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for 1BACE1 elisa kit

For samples: Serum, plasma, cell culture supernatants, body fluid and tissue homogenate

Intended Use This bACE1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human bACE1. This ELISA kit for research use only!

PRINCIPLE OF THE ASSAY bACE1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-bACE1 antibody and an bACE1-HRP conjugate. The assay sample and buffer are incubated together with bACE1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the bACE1 concentration since bACE1 from samples and bACE1-HRP conjugate compete for the anti-bACE1 antibody binding site. Since the number of sites is limited, as more sites are occupied by bACE1 from the sample, fewer sites are left to bind bACE1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The bACE1 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	41350854
NCBI GeneID	23621
UniProt Accession #	P56817; Q9BYB9; Q9BYC0; Q9BYC1; Q9UJT5; Q9ULS1; A0M8W7; B0YIU9; E9PE65; H7BXJ9
Molecular Weight	55,711 Da
NCBI Official Full Name	Beta-site APP-cleaving enzyme 1
NCBI Official Synonym Full Names	beta-site APP-cleaving enzyme 1
NCBI Official Symbol	BACE1
NCBI Official Synonym Symbols	ASP2; BACE; HSPC104
NCBI Protein Information	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
UniProt Protein Name	Beta-secretase 1
UniProt Gene Name	BACE1
UniProt Synonym Gene Names	BACE; KIAA1149; ASP2; Asp 2
UniProt Entry Name	BACE1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.