Product Name: **KD-Validated Beta-Secretase 1 Recombinant Rabbit Monoclonal Antibody**
Catalog #: **KVAb01144**
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 55.8kDa

Antigen Information

Gene Name	BACE1
Alternative Names	BACE1; Beta-Secretase 1; BACE; Membrane-Associated Aspartic Protease; Beta-Site APP Cleaving Enzyme 1; Beta-Site APP-Cleaving Enzyme Aspartyl Protease; EC 3.4.23.46; Memapsin-2; Asp 2; ASP2; Beta-Site Amyloid Beta A4 Precursor Protein-Cleaving Enzyme; Beta-Site Amyloid Precursor Protein Cleaving Enzyme 1; Transmembrane Aspartic Proteinase Asp2; Beta-Site APP-Cleaving Enzyme 1; APP Beta-Secretase; EC 3.4.23; KIAA1149; HSPC104
Gene ID	23621.0
SwissProt ID	P56817
Immunogen	A synthesized peptide derived from human BACE1

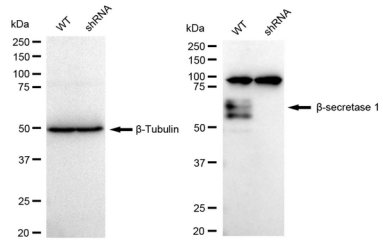
Background

This gene encodes a member of the peptidase A1 family of aspartic proteases. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protease. This transmembrane protease catalyzes the first step in the formation of amyloid beta peptide from amyloid precursor protein. Amyloid beta peptides are the main constituent of amyloid beta plaques, which accumulate in the brains of human Alzheimer's disease patients. [provided by RefSeq, Nov 2015]

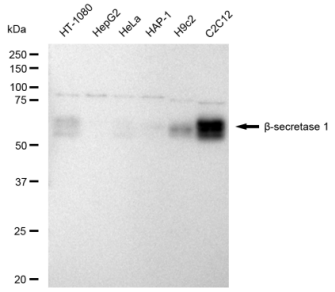
Research Area

Neuroscience,Cell Biology

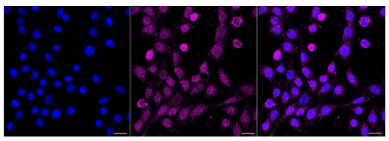
Image Data



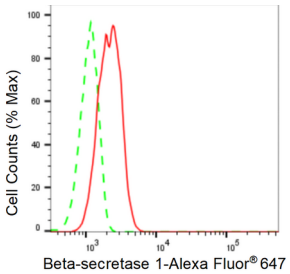
Western blotting analysis using Beta-secretase 1 antibody (KVAb01144). Beta-secretase 1 expression in wild type (WT) and Beta-secretase 1 shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Beta-secretase 1 antibody (KVAb01144, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Beta-secretase 1 antibody (KVAb01144). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Beta-secretase 1 antibody (KVAb01144, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with Beta-secretase 1 antibody (KVAb01144, 1:1,000) . Nuclei were stained blue with DAPI; Beta-secretase 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Flow cytometric analysis of Beta-secretase 1 expression in C2C12 cells using Beta-secretase 1 antibody (KVAb01144, 1:2,000). Green, isotype control; red, Beta-secretase 1.