
Product Name: KD-Validated Phospho-Presenilin 1 (Ser310) Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00777**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
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: 52.7kDa

Antigen Information

Gene Name	PSEN1
Alternative Names	PSEN1; Presenilin 1; PSNL1; PS-1; PS1; S182; FAD; AD3; Familial Alzheimer Disease; Presenilin-1; Alzheimer Disease 3; Protein S182; EC 3.4.23.-; EC 3.4.23; ACNINV3
Gene ID	5663.0
SwissProt ID	P49768
Immunogen	A synthesized peptide derived from human Phospho-Presenilin 1 (Ser310)

Background

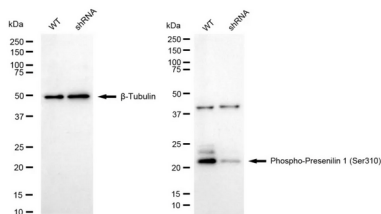
Alzheimer's disease (AD) patients with an inherited form of the disease carry mutations in the presenilin proteins (PSEN1; PSEN2) or in the amyloid precursor protein (APP). These disease-linked mutations result in increased production of the longer

form of amyloid-beta (main component of amyloid deposits found in AD brains). Presenilins are postulated to regulate APP processing through their effects on gamma-secretase, an enzyme that cleaves APP. Also, it is thought that the presenilins are involved in the cleavage of the Notch receptor, such that they either directly regulate gamma-secretase activity or themselves are protease enzymes. Several alternatively spliced transcript variants encoding different isoforms have been identified for this gene, the full-length nature of only some have been determined. [provided by RefSeq, Aug 2008]

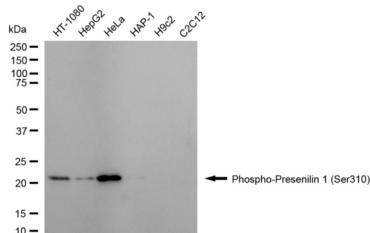
Research Area

Neuroscience,Cancer,Metabolism

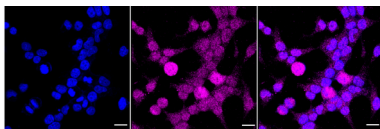
Image Data



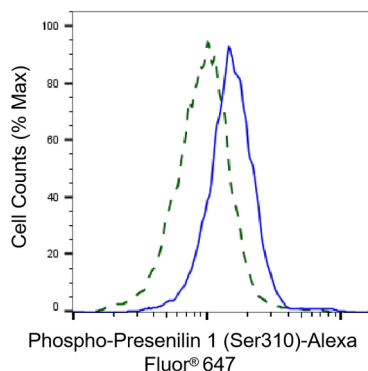
Western blotting analysis using phospho-presenilin 1 (Ser310) antibody (KVA00777). Phospho-presenilin 1 (Ser310) expression in wild-type (WT) and PSEN1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with phospho-presenilin 1 (Ser310) antibody (KVA00777, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. PSEN1, presenilin 1.



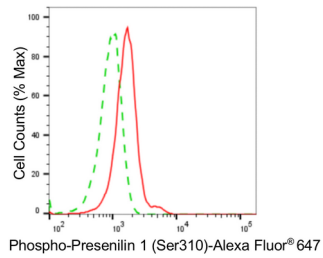
Western blotting analysis using phospho-presenilin 1 (Ser310) antibody (KVA00777). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with phospho-presenilin 1 (Ser310) antibody (KVA00777, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with Phospho-Presenilin 1 (Ser310) antibody (KVA00777, 1:1,000). Nuclei were stained blue with DAPI; Phospho-Presenilin 1 (Ser310) was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of Presenilin 1 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Phospho-Presenilin 1 (Ser310) antibody (KVA00777, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Phospho-Presenilin 1 (Ser310) expression in HeLa cells using Phospho-Presenilin 1 (Ser310) antibody (KVA00777, 1:2,000). Green, isotype control; red, Phospho-Presenilin 1 (Ser310).