



Presenilin Enhancer 2 (PEN2, MDS033)

Catalog number

P6300-80B

Supplier

United States Biological

Presenilin enhancer protein 2 (PEN2) is a 101-amino acid protein that traverses the membrane twice and it is the regulatory component of the multimeric gamma-secretase complex which also consists of presenilin, APH-1 and Nicastrin. The gamma-secretase complex catalyzes the cleavage of a number of integral membrane proteins including beta-amyloid precursor protein (APP), Notch protein, Erb4 and E-cadherin. The gamma-secretase complex cleaves the APP yielding amyloid beta peptide, which is the main component of the neuritic plaque and the hallmark lesion in the brains of patients with Alzheimer's disease. In addition, PEN2 is required for end proteolysis of presenilin and activation of the gamma-secretase.

Applications

Suitable for use in ELISA and Western Blot. Other applications not tested.

Recommended Dilution

ELISA: 0.05-0.2ug/ml

Western Blot: 1-2ug/ml

Optimal dilutions to be determined by the researcher.

Storage and Stability

For long-term storage, aliquot and store at -20°C. Aliquots are stable for at least 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

Immunogen

Synthetic peptide (KLH-conjugated) corresponding to human PEN2

Formulation

Supplied as a liquid in PBS, pH 7.4, 0.02% sodium azide, 30% glycerol.

Purity

Purified by immunoaffinity chromatography.

Specificity

Recognizes human PEN2.

Product Type

Pab

Source

human

Isotype



IgG

Grade

Affinity Purified

Applications

E WB

Crossreactivity

Hu

Storage

-20°C