

Product information

Product number:	AS06 154
Lot Number:	0606
Clonality:	Polyclonal
Raised in:	Rabbit
Purity:	Affinity purified IgG
Amount:	200 µg
Antibody form:	Lyophilized

Please, add 83,3 µl of sterile dist. water per tube for reconstitution of antibodies.

Storage instructions: -20°C

Please, avoid freezing and thawing of antibodies. Make aliquots instead.

Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from liquid or lyophilized material adhering to the cap or sides of the tubes.

References:

Farmery, M.R., et. al (2003) Partial purification and characterization of γ -secretase from post-mortem human brain. *J. Biol. Chem.* **278**: 867-872.

Bergman, A., et al. (2004) Pen-2 is sequestered in the endoplasmic reticulum and subjected to ubiquitylation and proteasome-mediated degradation in the absence of presenilin. *J. Biol. Chem.* **279**: 16744-16753.

Background

One characteristic feature of Alzheimer's disease is the deposition of amyloid β -peptide ($A\beta$) as amyloid plaques within specific regions of the human brain. $A\beta$ is derived from the amyloid β -peptide precursor protein (β -APP) by the intramembranous cleavage activity of γ -secretase. PEN-2 is a critical component of PS1/ γ -secretase and PS2/ γ -secretase complexes. γ -Secretase mediates the generation of $A\beta$ and is central to the pathogenesis of Alzheimer's disease.

The γ -secretase complex contains and is functionally dependent upon the N- and C-terminal fragments of PS1, the transmembrane glycoprotein nicastrin, and the recently identified transmembrane proteins Aph-1 and Pen-2.

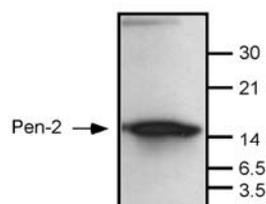
Immunogen: The antibody was raised against the N-terminal eleven residues of human Pen-2. Pen-2 is the smallest component of the multi-protein γ -secretase complex. Chosen synthetic peptide has been conjugated to KLH.

Application information

Western blot: 5-10 µg/ml

Reactivity: Human, murine, and hamster Pen-2.

Approx. MW of the target protein is 15 kDa. Antibodies recognize also an unknown protein at around 40 kDa.



Rat brain homogenate (15 µg). Overnight incubation of PVDF membrane with Pen-2 antibody (5 µg/ml) in PBS containing 1% BSA. Horseradish peroxidase-conjugated anti-rabbit (0.5 µg/ml; GE Biosciences) was used for detection.

Antibodies are intended for the research use only not for diagnostic or therapeutic use.

Distributor



COSMO BIO CO., LTD.
Inspiration for Life Science

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