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# Psenen antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14395

## Product Information

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|---|---|
| **Application** | WB |
| **Primary Accession** | Q9CQR7 |
| **Other Accession** | NM_025498, NP_079774 |
| **Reactivity** | Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine |
| **Predicted** | Dog |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 11999 |

## Additional Information

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|---|---|
| **Gene ID** | 66340 |
| **Alias Symbol** | 1700023M09Rik, MGC102026 |
| **Other Names** | Gamma-secretase subunit PEN-2, Presenilin enhancer protein 2, Psenen, Pen2 |
| **Format** | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| **Reconstitution & Storage** | Add 50 ul of distilled water. Final anti-Psenen antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles. |
| **Precautions** | Psenen antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | Psenen |
| **Synonyms** | Pen2 |
| **Function** | Essential subunit of the gamma-secretase complex, an endoprotease complex that catalyzes the intramembrane cleavage of integral membrane proteins such as Notch receptors and APP (amyloid- beta precursor protein) (PubMed:12522139, PubMed:24941111). The gamma- secretase complex plays a role in Notch and Wnt signaling cascades and regulation of downstream processes via its role in processing key regulatory proteins, and by regulating cytosolic CTNNB1 levels (Probable). PSENEN modulates both endoproteolysis of presenilin and gamma-secretase activity (PubMed:12522139, PubMed:24941111). Besides its role in gamma-secretase |

complex, acts as a regulator of AMP- activated protein kinase (AMPK) activity in response to calorie restriction: binds metformin, an antidiabetic drug, promoting association with ATP6AP1, a subunit of the V-ATPase complex, leading to V-ATPase complex inhibition on lysosomes and AMPK activation via the AXIN1-STK11/LKB1 axis (PubMed:35197629).

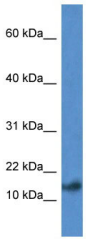
**Cellular Location**

Endoplasmic reticulum membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q9NZ42}. Golgi apparatus, Golgi stack membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q9NZ42}. Cell membrane {ECO:0000250|UniProtKB:Q9NZ42}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q9NZ42}. Membrane {ECO:0000250|UniProtKB:Q9NZ42}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q9NZ42}. Note=Predominantly located in the endoplasmic reticulum and in the cis-Golgi

## References

Carninci P.,et al.Science 309:1559-1563(2005).

## Images




WB Suggested Anti-Psenen Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Heart

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.