

PION Antibody

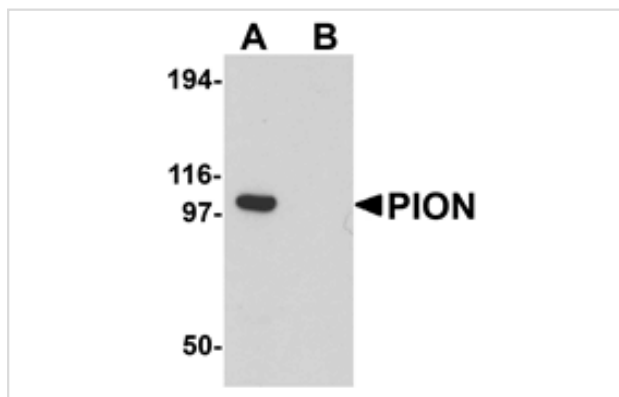
Catalog No: #25252

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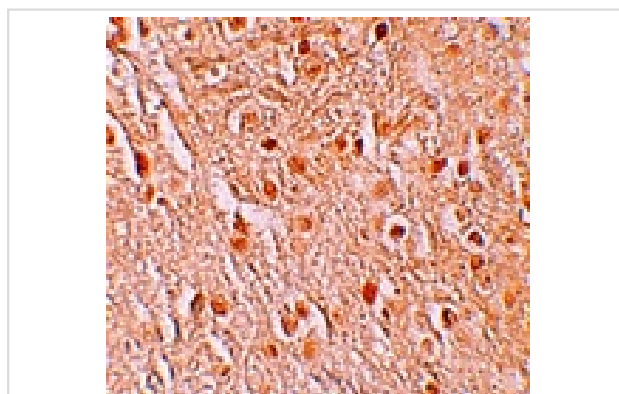
Description

Product Name	PION Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	E WB IHC
Species Reactivity	Hu Ms Rt
Specificity	Multiple isoforms of PION are known to exist. PION antibody is predicted to not cross-react with other F-box protein family members.
Immunogen Type	Peptide
Immunogen Description	Raised against a 19 amino acid peptide near the carboxy terminus of human PION.
Target Name	PION
Other Names	Protein pigeon homolog, gamma-secretase activating protein, GSAP
Accession No.	NP_059135
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



Western blot analysis of PION in EL4 cell lysate with PION antibody at 0.25 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of PION in human brain tissue with PION antibody at 5 ug/mL.

Background

Accumulation of the amyloid-beta peptide (A β) in the cerebral cortex is a critical event in the pathogenesis of Alzheimer's disease. The beta-amyloid protein precursor (APP) is cleaved by one of two beta-secretases (BACE and BACE2), producing a soluble derivative of the protein and a membrane anchored 99 -amino acid carboxy-terminal fragment (C99). The C99 fragment serves as substrate for gamma-secretase to generate the 4 kDa amyloid-beta peptide (A β), which is deposited in the Alzheimer's disease patients' brains. PION, or GSAP, selectively increases amyloid-beta production through a mechanism involving its interaction with both gamma-secretase and the APP C-terminal fragment, suggesting that PION may be a potential therapeutic target for the treatment of Alzheimer's disease.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.