

Product datasheet for **TA319937**

PION (GSAP) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.25 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	PION antibody was raised against a 19 amino acid synthetic peptide near the carboxy terminus of human PION. The immunogen is located within amino acids 770 - 820 of PION.
Formulation:	PION Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	PION Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	gamma-secretase activating protein
Database Link:	NP_059135 Entrez Gene 212167 Mouse Entrez Gene 311984 Rat Entrez Gene 54103 Human A4D1B5

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Background:

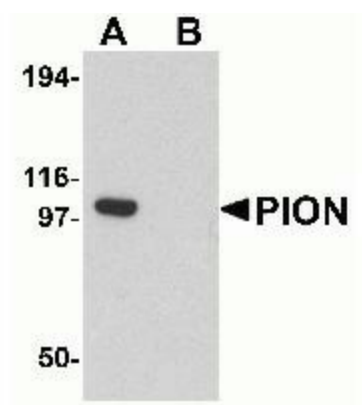
PION Antibody: Accumulation of the amyloid-beta peptide (Abeta) in the cerebral cortex is a critical event in the pathogenesis of Alzheimer's disease. The beta-amyloid protein precursor (APP) is cleaved by one of two beta-secretases (BACE and BACE2), producing a soluble derivative of the protein and 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 (Abeta), which is deposited in the Alzheimer's disease patient's 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.

Synonyms:

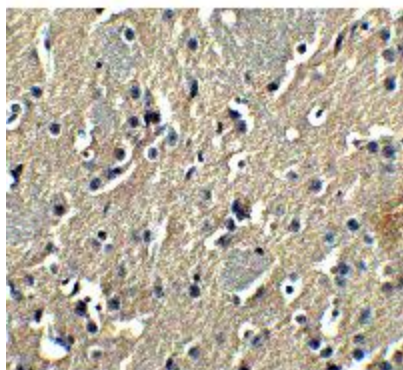
PION

Protein Families:

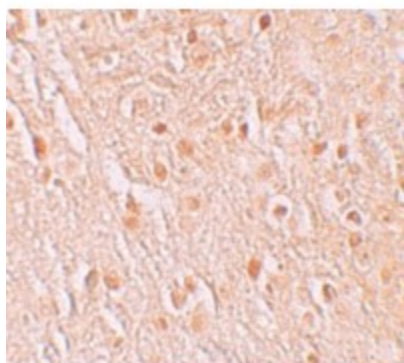
Druggable Genome

Product images:


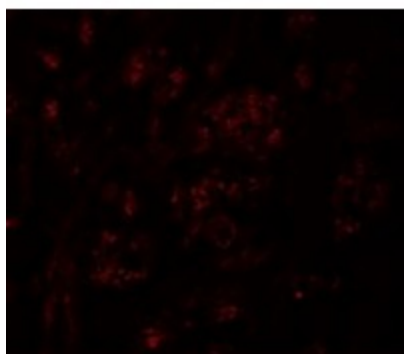
Western blot analysis of PION in EL4 cell lysate with PION antibody at 0.25ug/ml in (A) the absence and (B) the presence of blocking peptide.



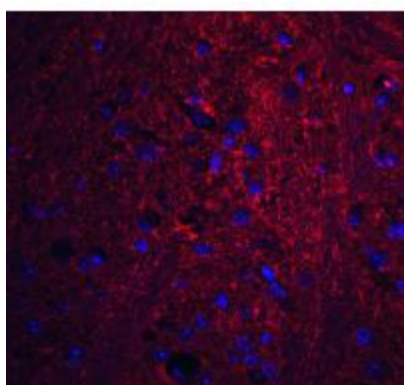
Immunohistochemistry of PION in mouse brain tissue with PION antibody at 5ug/ml.



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



Immunofluorescence of PION in Human Brain cells with PION antibody at 20ug/ml.



Immunofluorescence of PION in mouse brain tissue with PION antibody at 20ug/ml.