BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-PION GSAP Antibody

**Catalog Number:** A09313

## About PION

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.

## Overview

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| Product Name | Anti-PION GSAP Antibody |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-PION GSAP Antibody (Catalog # A09313). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat. |
| Application | ELISA, IF, IHC-P, WB |
| Clonality | Polyclonal |
| Formulation | PION Antibody is supplied in PBS containing 0.02% sodium azide. |
| Storage Instructions | PION antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |
| Host | Rabbit |
| Uniprot ID | A4D1B5 |

## Technical Details

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| 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. |
| Predicted Reactive Species | Bovine, Mouse |
| Cross Reactivity | Multiple isoforms of PION are known to exist. PION antibody is predicted to not cross-react with other F-box protein family members. |
| Isotype | IgG |
| Form | Liquid |
| Concentration | 1 mg/mL |

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|---|---|
| Purification | PION Antibody is affinity chromatography purified via peptide column. |
| Suggested Dilutions | PION antibody can be used for detection of PION by Western blot at 0.25 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in mouse samples; Immunohistochemistry in human and mouse samples and Immunofluorescence in human and mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher. |

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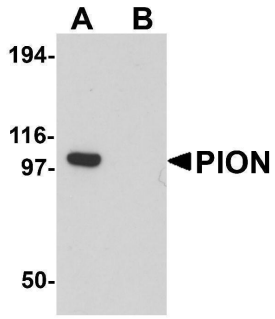
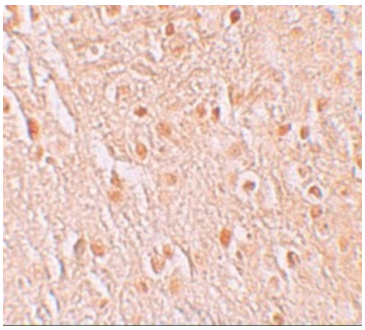
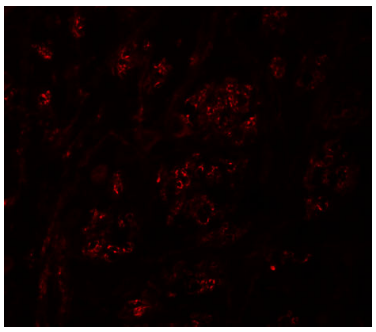
# Anti-PION GSAP Antibody (A09313) Images



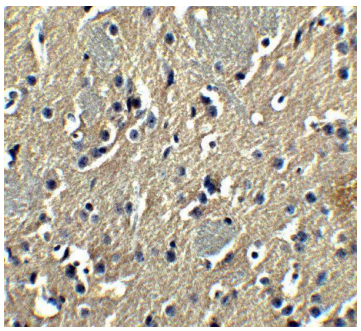

Western blot analysis of PION in EL4 cell lysate with PION antibody at 0.25 ug/mL in (A) the absence and (B) the presence of blocking peptide.



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



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



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

Immunofluorescence of PION in mouse brain tissue with PION antibody at 20 ug/mL.Red: PION Antibody (A09313) Blue: DAPI staining

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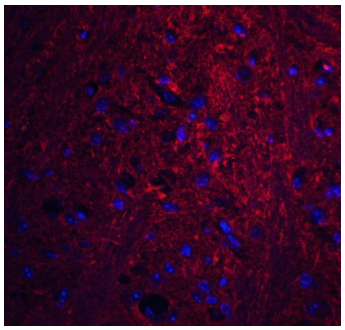



Anti-PION GSAP Antibody

For Research Use Only. Not for use in diagnostic procedures.