

PION Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 254417

Unit: 0.1 mg

Description:

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 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.

Isotype: Rabbit Ig

Applications: E, IF, IHC, WB

Species Reactivity: H, M, R

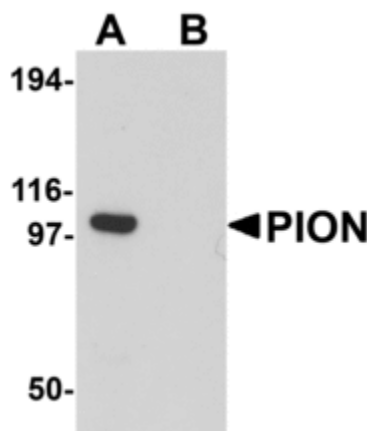
Format: Each vial contains 0.1 ml IgG at 1 mg/ml in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.

Alternate Names: Protein pigeon homolog; gamma-secretase activating protein; GSAP; PION

Accession No.: NP_059135

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human PION.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500; IF: 1:50-1:200; IHC: 1:100-1:500



Western blot analysis of PION in EL4 cell lysate with PION Antibody (Cat. No. 254417) at 0.25 ug/mL in (A) the absence and (B) the presence of blocking peptide.

Storage: Store at -20°C. Minimize freeze-thaw cycles. Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.