

# Human APP/Protease Nexin II antibody

Catalog Number: AAP0836

## PRODUCT INFORMATION

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**Catalog number**

AAP0836

**Clone No.**

J4H9

**Product type**

Monoclonal Antibody

**UnitProt No.**

P05067

**NCBI Accession No.**

NP\_000475

**Alternative Names**

amyloid beta A4 protein precursor, isoform, amyloid beta (A4) precursor protein, Alzheimer disease, peptidase nexin-II

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human APP (18-289aa) purified from E. coli

**Isotype**

IgG2b kappa

**Purification Note**

By protein-G affinity chromatography

**Application**

ELISA, WB, ICC/IF, FACS

**Usage**

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

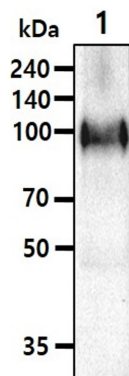
Amyloid precursor protein (APP) is the precursor molecule whose proteolysis generates amyloid beta (AB), a 39- to 42- amino acid peptide and this amyloid fibrillar form is the primary component of amyloid plaques found in the brains of Alzheimer's diseases patients. APP is an integral membrane protein that is phosphorylated in the cytoplasmic and extracellular domains. It has been reported that cell-surface APP plays a role in neurite extension of primary cultured hippocampal neurons. The large extracellular domain of APP is also reported to bind extracellular matrix molecules such as heparin, laminin, and collagen, which can mediate cell adhesion and neurite outgrowth. Abnormal regulation of the metabolism of APP may contribute to the deposition of plaques.

### General References

Suzuki, T. et al., (1994) EMBO J. 13, 1114-1122.  
Ando, K. et al. (1999) J. Neurosci. 19, 4421-4427.

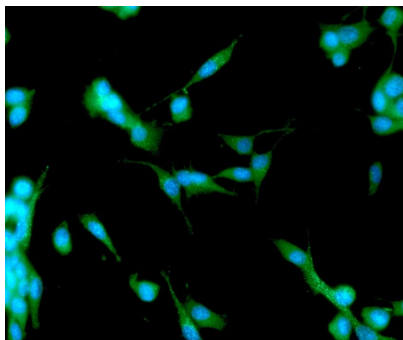
## DATA

### Western blot analysis (WB)



The tissue lysate(40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human APP (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.  
Lane 1.: Mouse brain tissue lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)

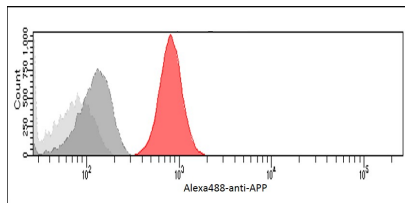


ICC/IF analysis of APP/Protease Nexin II in U87MG cells. The cell was stained with AAP0836 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

### Flow cytometry (FACS)

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Flow cytometry analysis of APP/Protease Nexin II in 293T cells. The cell was stained with AAP0836 at 2-5ug for  $1 \times 10^6$  cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).