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Human APP/Protease Nexin II antibody

Catalog Number: AAP0836

PRODUCT INFORMATION

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

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

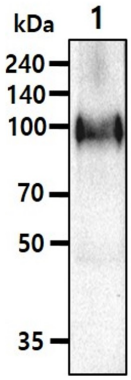
Amyloid precursor protein (APP) is the precursor molecule whose proteolysis generates amyloid beta (AB), a 39- to 42- amino acid peptide and this amyloid fibrillar form is the primary component of amyloid plaques found in the brains of Alzheimer's diseases patients. APP is an integral membrane protein 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.

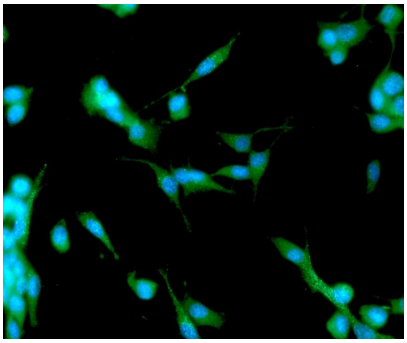
DATA

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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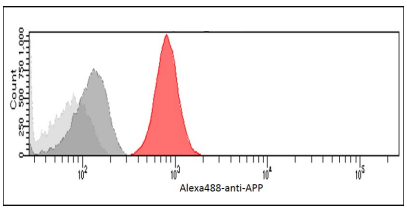

Flow cytometry analysis of APP/Protease Nexin II in 293T cells. The cell was stained with AAP0836 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).