Product information

Monoclonal anti-human APP antibody (clone J4H9)

Mouse IgG_{2b}, κ

Cat. No. IBAAP0836

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

NCBI Accession No.: NP_000475

Isotype: Mouse IgG_{2b} heavy chain and κ light chain

Clone: Anti-human APP mAb, clone J4H9, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human APP protein.

Description: Amyloid precursor protein (APP) is the precursor molecule whose proteolysis generates amyloid beta (Aβ), 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.

Concentration: 1mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.

Storage: Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

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

Application: ELISA, WB, Flow cytometry, ICC/IF

Manufactured for:
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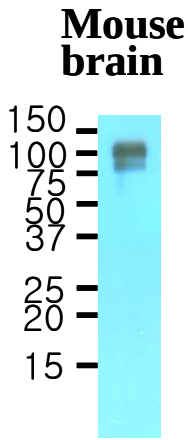
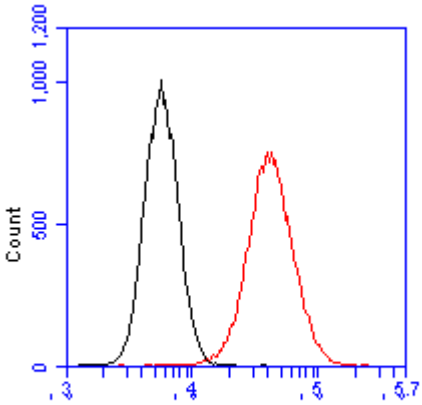
Western blot analysis

Tissue lysates of mouse brain (30ug) were resolved by SDS-PAGE, transferred to NC 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.



Flow cytometry

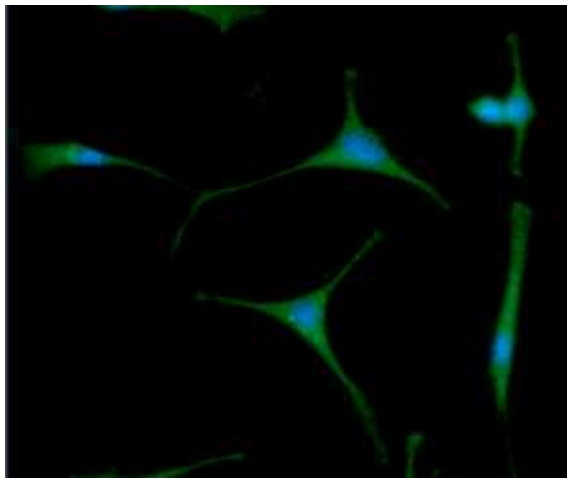
Flow cytometry analysis of APP in 293T cell line, staining at 2-5ug for 1x10^{6}cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Alexa488-anti-APP

ICC/IF analysis

ICC/IF analysis of APP in U87MG cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human APP antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



General references: Suzuki, T. *et al*., (1994) *EMBO J*. 13, 1114-1122

Ando, K. *et al*. (1999) *J. Neurosci.* 19, 4421-4427.

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