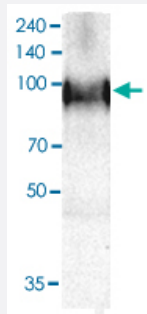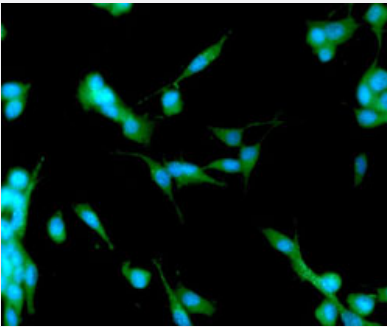# APP monoclonal antibody, clone J4H9

Catalog #   MAB2041   Size   100 uL
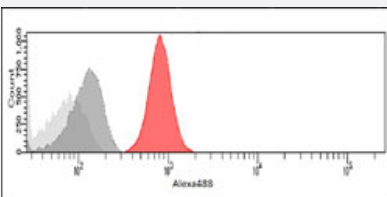
Applications

Western Blot (Tissue lysate)

Western blot analysis of mouse brain tissue lysate.

Immunofluorescence

Immunofluorescence analysis of U87 MG cells. The cell was stained with APP monoclonal antibody, clone J4H9 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow Cytometry

Flow cytometric analysis of 293T cells. The cell was stained with APP monoclonal antibody, clone J4H9 at 2-5 ug for 1×10^6 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).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant APP.
Immunogen	Recombinant protein corresponding to amino acids 18-289 of human APP.

Host	Mouse
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein G purification
Isotype	IgG2b, kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	ELISA Flow Cytometry Immunocytochemistry Immunofluorescence Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- **Western Blot (Tissue lysate)**

  Western blot analysis of mouse brain tissue lysate.

- **Immunocytochemistry**

- **Immunofluorescence**

  Immunofluorescence analysis of U87 MG cells. The cell was stained with APP monoclonal antibody, clone J4H9 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

- **Enzyme-linked Immunoabsorbent Assay**

- **Flow Cytometry**

  Flow cytometric analysis of 293T cells. The cell was stained with APP monoclonal antibody, clone J4H9 at 2-5 ug for $1x10^6$ 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).

Gene Info — APP

Entrez GeneID	[351](#)
Protein Accession#	[NP_000475](#)
Gene Name	APP
Gene Alias	AAA, ABETA, ABPP, AD1, APPI, CTFgamma, CVAP, PN2
Gene Description	amyloid beta (A4) precursor protein
Omim ID	[104760](#) [605714](#)
Gene Ontology	[Hyperlink](#)
Gene Summary	This gene encodes a cell surface receptor and transmembrane precursor protein that is cleaved by secretases to form a number of peptides. Some of these peptides are secreted and can bind to the acetyltransferase complex APBB1/TIP60 to promote transcriptional activation, while others form the protein basis of the amyloid plaques found in the brains of patients with Alzheimer disease. Mutations in this gene have been implicated in autosomal dominant Alzheimer disease and cerebroarterial amyloidosis (cerebral amyloid angiopathy). Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq
Other Designations	A4 amyloid protein|amyloid beta A4 protein|amyloid-beta protein|beta-amyloid peptide|cerebral vascular amyloid peptide|peptidase nexin-II|protease nexin-II

Publication Reference

- [Role of phosphorylation of Alzheimer's amyloid precursor protein during neuronal differentiation.](#)

  Ando K, Oishi M, Takeda S, Iijima K, Isohara T, Nairn AC, Kirino Y, Greengard P, Suzuki T.

  Journal of Neuroscience 1999 Jun; 19(11):4421.

  Application: IF, IP, WB-Ce, WB-Tr, Rat, PC-12 cells

- [Cell cycle-dependent regulation of the phosphorylation and metabolism of the Alzheimer amyloid precursor protein.](#)

  Suzuki T, Oishi M, Marshak DR, Czernik AJ, Nairn AC, Greengard P.

  The EMBO Journal 1994 Mar; 13(5):1114.

  Application: IP, WB-Ce, WB-Re, Human, Rat, HeLa, PC-12 cells, Synthetic peptides

Disease

- [Alzheimer disease](#)

- [Amyloidosis](#)

- [Cardiovascular Diseases](#)

- [Celiac Disease](#)

- [Cerebral Hemorrhage](#)

- [Cerebrovascular Disorders](#)

- [Cognition](#)

- [Cognition Disorders](#)

- [Dementia](#)

- [Diabetes Mellitus](#)

- [Disease Progression](#)

- [Disease Susceptibility](#)

- [Down Syndrome](#)

- [Edema](#)

- [Genetic Predisposition to Disease](#)

- [Headache](#)

- [Macular Degeneration](#)

- [Mental Status Schedule](#)

- [Neuropsychological Tests](#)

- [Psychiatric Status Rating Scales](#)

- [Recurrence](#)

- [Tobacco Use Disorder](#)

- [Tourette Syndrome](#)