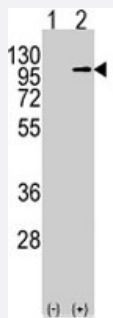


APP polyclonal antibody

Catalog # PAB4898

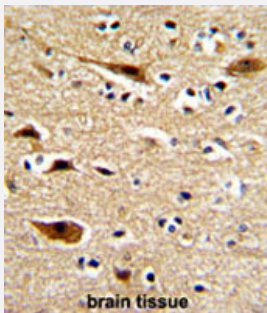
Size 400 uL

Applications



Western Blot (Transfected lysate)

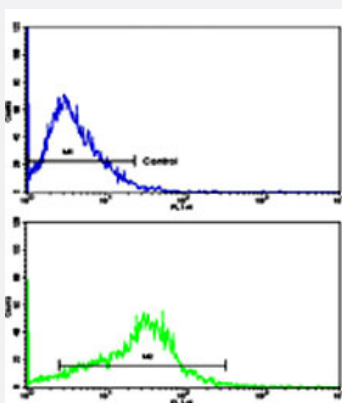
Western blot analysis of APP (arrow) using rabbit APP polyclonal antibody (Cat # PAB4898). 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the APP gene (Lane 2) (Origene Technologies).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human brain reacted with APP polyclonal antibody (Cat # PAB4898), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.

This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry

Flow cytometric analysis of HepG2 cells using APP polyclonal antibody (Cat # PAB4898)(bottom histogram) compared to a negative control cell (top histogram).

FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic peptide of APP.

Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human APP.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein G purification
Recommend Usage	ELISA (1:1000) Western Blot (1:50-100) Immunohistochemistry (1:10-50) Flow cytometry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°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 (Transfected lysate)

Western blot analysis of APP (arrow) using rabbit APP polyclonal antibody (Cat # PAB4898). 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the APP gene (Lane 2) (Origene Technologies).

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- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometric analysis of HepG2 cells using APP polyclonal antibody (Cat # PAB4898)(bottom histogram) compared to a negative control cell (top histogram).

FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Gene Info — APP

Entrez GeneID	351
Protein Accession#	A4_HUMAN
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 cerebral amyloid angiopathy (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

- [Platelet amyloid precursor protein abnormalities in mild cognitive impairment predict conversion to dementia of Alzheimer type: a 2-year follow-up study.](#)

Borroni B, Colciaghi F, Caltagirone C, Rozzini L, Broglio L, Cattabeni F, Di Luca M, Padovani A.

Archives of Neurology 2003 Dec; 60(12):1740.

Application: WB, Human, Human platelets

- [Nonsteroidal anti-inflammatory drugs can lower amyloidogenic Abeta42 by inhibiting Rho.](#)

Zhou Y, Su Y, Li B, Liu F, Ryder JW, Wu X, Gonzalez-DeWhitt PA, Gelfanova V, Hale JE, May PC, Paul SM, Ni B.

Science 2003 Nov; 302(5648):1215.

- [Notch1 competes with the amyloid precursor protein for gamma-secretase and down-regulates presenilin-1 gene expression.](#)

Lleo A, Berezovska O, Ramdya P, Fukumoto H, Raju S, Shah T, Hyman BT.

The Journal of Biological Chemistry 2003 Nov; 278(48):47370.

Application: WB-Tr, Mouse, N2a cells

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](#)