

# APP Antibody

Purified Mouse Monoclonal Antibody  
Catalog # AO1979a

## Product Information

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<b>Application</b>	WB, FC, E
<b>Primary Accession</b>	<a href="#">P05067</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	5H10A10
<b>Isotype</b>	IgG2b
<b>Calculated MW</b>	86943 Da
<b>Description</b>	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.
<b>Immunogen</b>	Purified recombinant fragment of human APP (AA: 483-699) expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS with 0.05% sodium azide.

## Additional Information

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<b>Other Names</b>	Amyloid beta A4 protein, ABPP, APPI, APP, Alzheimer disease amyloid protein, Cerebral vascular amyloid peptide, CVAP, PreA4, Protease nexin-II, PN-II, N-APP, Soluble APP-alpha, S-APP-alpha, Soluble APP-beta, S-APP-beta, C99, Beta-amyloid protein 42, Beta-APP42, Beta-amyloid protein 40, Beta-APP40, C83, P3(42), P3(40), C80, Gamma-secretase C-terminal fragment 59, Amyloid intracellular domain 59, AICD-59, AID(59), Gamma-CTF(59), Gamma-secretase C-terminal fragment 57, Amyloid intracellular domain 57, AICD-57, AID(57), Gamma-CTF(57), Gamma-secretase C-terminal fragment 50, Amyloid intracellular domain 50, AICD-50, AID(50), Gamma-CTF(50), C31, APP, A4, AD1
<b>Dilution</b>	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	APP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

### Background

The protein encoded by this gene belongs to putative adhesion molecule of myelomonocytic-derived cells that mediates sialic-acid dependent binding to cells. Preferentially binds to alpha-2,6-linked sialic acid. The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface. In the immune response, may act as an inhibitory receptor upon ligand induced tyrosine phosphorylation by recruiting cytoplasmic phosphatase(s) via their SH2 domain(s) that block signal transduction through dephosphorylation of signaling molecules. Induces apoptosis in acute myeloid leukemia (in vitro) and CD33 plays potential key roles in the pathogenesis of Alzheimer's disease (AD)

### References

1. Proc Natl Acad Sci U S A. 2013 Sep 3;110(36):14604-9.2. ACS Chem Neurosci. 2013 Mar 20;4(3):454-62.

### Images

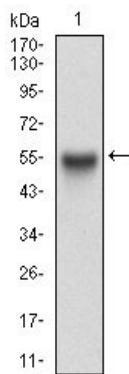


Figure 1: Western blot analysis using APP mAb against human APP (AA: 483-699) recombinant protein. (Expected MW is 50.7 kDa)

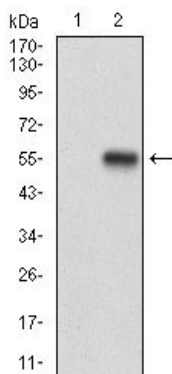


Figure 2: Western blot analysis using APP mAb against HEK293 (1) and APP (AA: 483-699)-hIgGfc transfected HEK293 (2) cell lysate.

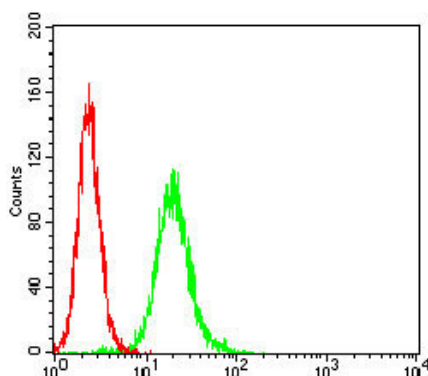


Figure 3: Flow cytometric analysis of HeLa cells using APP mouse mAb (green) and negative control (red).