

Datasheet for ABIN3029929  
**anti-APP antibody (AA 29-61)**



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5 Images

## Overview

Quantity:	0.4 mL
Target:	APP
Binding Specificity:	AA 29-61
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This APP antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

## Product Details

Immunogen:	A portion of amino acids 29-61 from the human Amyloid beta protein was used as the immunogen for this APP antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Primate
Purification:	Purified

## Target Details

Target:	APP
Alternative Name:	APP ( <a href="#">APP Products</a> )
Background:	Functions as a cell surface receptor and performs physiological functions on the surface of

## Target Details

neurons relevant to neurite growth, neuronal adhesion and axonogenesis. Involved in cell mobility and transcription regulation through protein-protein interactions. Can promote transcription activation through binding to APBB1-KAT5 and inhibits Notch signaling through interaction with Numb. Couples to apoptosis-inducing pathways such as those mediated by G(O) and JIP. Inhibits G(o) alpha ATPase activity (By similarity). Acts as a kinesin I membrane receptor, mediating the axonal transport of beta-secretase and presenilin 1. Involved in copper homeostasis/oxidative stress through copper ion reduction. In vitro, copper-metallated APP induces neuronal death directly or is potentiated through Cu2+-mediated low-density lipoprotein oxidation. Can regulate neurite outgrowth through binding to components of the extracellular matrix such as heparin and collagen I and IV. The splice isoforms that contain the BPTI domain possess protease inhibitor activity. Induces a AGER-dependent pathway that involves activation of p38 MAPK, resulting in internalization of amyloid-beta peptide and leading to mitochondrial dysfunction in cultured cortical neurons. [UniProt]

UniProt:	<a href="#">P05067</a>
Pathways:	<a href="#">Caspase Cascade in Apoptosis</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Transition Metal Ion Homeostasis</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">Toll-Like Receptors Cascades</a> , <a href="#">Feeding Behaviour</a>

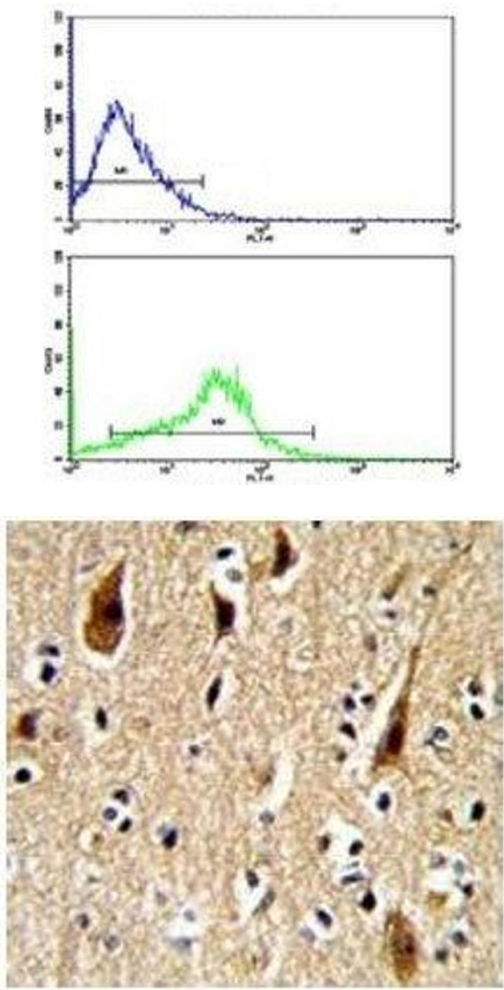
## Application Details

Application Notes:	Titration of the APP antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:10-1:50,Flow Cytometry: 1:10-1:50
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Restrictions:	For Research Use only
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## Handling

Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the APP antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

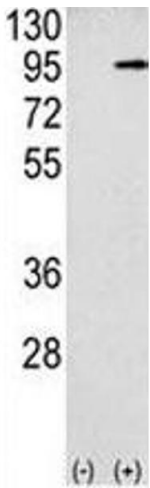


### Flow Cytometry

**Image 1.** Flow cytometric analysis of HepG2 cells using APP antibody (bottom histogram) compared to a negative control (top histogram). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.

### Immunohistochemistry

**Image 2.** IHC analysis of FFPE human brain with APP antibody



### Western Blotting

**Image 3.** Western blot analysis APP antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the APP gene (2).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3029929.