

For Research Use Only

# APP/Beta Amyloid Polyclonal antibody

Catalog Number: 25524-1-AP

Featured Product

105 Publications



## Basic Information

<b>Catalog Number:</b> 25524-1-AP	<b>GenBank Accession Number:</b> BC065529	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 550 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 351	<b>Recommended Dilutions:</b> WB: 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P05067	<b>IHC:</b> 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> amyloid beta (A4) precursor protein	<b>IF/ICC:</b> 1:50-1:500
<b>Immunogen Catalog Number:</b> AG22408	<b>Observed MW:</b> 100 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC, IF	<b>WB :</b> SH-SY5Y cells, HAP1 cells, HeLa cells, NCI-H1299 cells, mouse brain tissue, rat brain tissue, C6 cells
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> human gliomas tissue, human brain tissue
<b>Cited Species:</b> human, mouse, rat, zebrafish	<b>IF/ICC :</b> SH-SY5Y cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

A $\beta$  derives from APP via proteolytic cleavage by proteases called  $\alpha$ -,  $\beta$ - and  $\gamma$ -secretase. The  $\alpha$ -secretase cleavage precludes the formation of A $\beta$ , while the  $\beta$ - and  $\gamma$ -cleavages generate APP components with amyloidogenic features. Amyloid beta A4 precursor protein (APP), encoded by APP gene which locate on human chromosome 21q, is a cell surface receptor and performs physiological functions on the surface of neurons relevant to neurite growth, neuronal adhesion and axonogenesis. APP expressed in all fetal tissues and is pronounced in brain, kidney, heart and spleen, but weak in liver. Defects in APP are the cause of Alzheimer disease type 1 (AD1). Amyloid  $\beta$  (A $\beta$ ) precursor protein (APP) is a 100-140 kDa transmembrane glycoprotein that exists as several isoforms. This antibody can recognize several isoforms of both mature and immature amyloid beta (A4) precursor protein, including APP770, APP677, APP695, APP696, APP733, APP751, APP752, and APP639. APP can be cleaved into several chains, this antibody could recognize fragments C99, Amyloid-beta protein 42, Amyloid-beta protein 40, C83, P3(40), C80, Gamma-secretase C-terminal fragment 59, Gamma-secretase C-terminal fragment 57, Gamma-secretase C-terminal fragment 50, C31.

## Notable Publications

Author	Pubmed ID	Journal	Application
Shenya Xu	33183805	Sci Total Environ	WB, IHC
Zhongkang Zhu	34695452	Neurosci Lett	IHC, IF
Jie Ai	33131696	Free Radic Biol Med	WB

## Storage

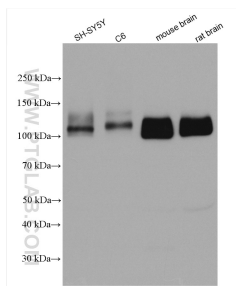
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

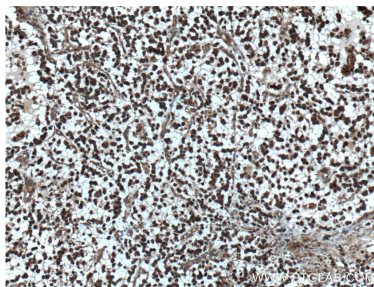
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

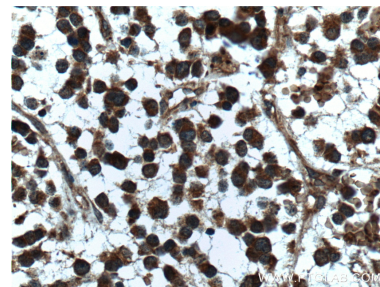
## Selected Validation Data



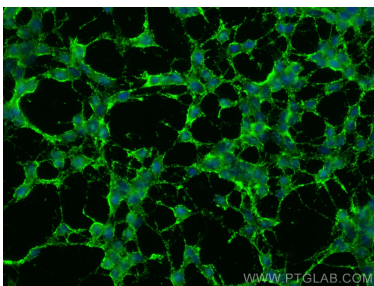
Various lysates were subjected to SDS PAGE followed by western blot with 25524-1-AP (APP antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 25524-1-AP (APP, C-Terminal antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 25524-1-AP (APP, C-Terminal antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using APP/Beta Amyloid antibody (25524-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).