

For Research Use Only

# APP Monoclonal antibody

Catalog Number: 60342-1-Ig

Featured Product

25 Publications



## Basic Information

<b>Catalog Number:</b> 60342-1-Ig	<b>GenBank Accession Number:</b> BC004369	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 351	<b>CloneNo.:</b> 5C2A1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P05067	<b>Recommended Dilutions:</b> WB: 1:1000-1:4000 IHC: 1:20-1:200
<b>Isotype:</b> IgG2a	<b>Full Name:</b> amyloid beta (A4) precursor protein	
<b>Immunogen Catalog Number:</b> AG0769	<b>Calculated MW:</b> 87 kDa	
	<b>Observed MW:</b> 100 kDa	

## Applications

**Tested Applications:**  
WB, IHC, ELISA

**Cited Applications:**  
WB, IHC, IF, IP

**Species Specificity:**  
human, rat, pig, rabbit

**Cited Species:**  
human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** pig brain tissue, HEK-293 cells, Y79 cells, rabbit brain tissue, rat brain tissue

**IHC :** human gliomas tissue,

## 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Chao Zhou	31509519	Aging (Albany NY)	WB,IF
Wenting Hu	35286657	Neurotherapeutics	WB
Naoki Nishida	28666147	Cardiovasc Pathol	IHC

## 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

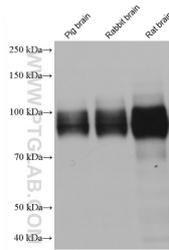
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

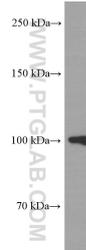
E: proteintech@ptglab.com  
W: ptglab.com

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

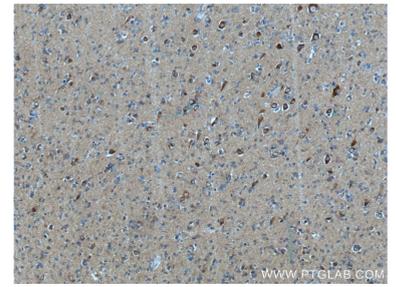
## Selected Validation Data



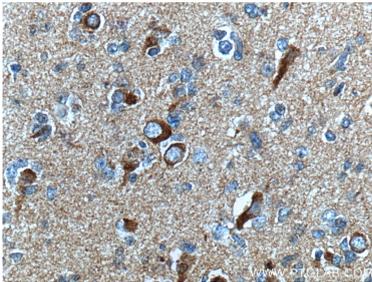
Various lysates were subjected to SDS PAGE followed by western blot with 60342-1-Ig (APP antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Y79 cells were subjected to SDS PAGE followed by western blot with 60342-1-Ig (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 60342-1-Ig (APP 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 60342-1-Ig (APP Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).