

For Research Use Only

# Presenilin-1-Specific Polyclonal antibody

Catalog Number: 16163-1-AP

Featured Product

21 Publications



## Basic Information

Catalog Number:

16163-1-AP

Concentration:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_000021

GeneID (NCBI):

5663

UNIPROT ID:

P49768

Full Name:

presenilin 1

Calculated MW:

53 kDa

Observed MW:

21 kDa, 53 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:8000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:500-1:2000

## Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat, monkey

Cited Species:

human, mouse, rat, pig

**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: COS-7 cells, HeLa cells, HepG2 cells, Jurkat cells, rat brain tissue, mouse brain tissue

IP: mouse kidney tissue,

IHC: human prostate cancer tissue, mouse brain tissue

## Background Information

PSEN1(presenilin-1) is also named as AD3, PS1, PSNL1 and belongs to the peptidase A22A family. It directly influences Netrin/DCC signaling with cell type precision and spatiotemporal specificity, and is a key neural circuit builder that gates the spatiotemporal pattern of guidance signaling, thereby ensuring neural projections occur with high fidelity(PMID:21215373). The 46-kDa PSEN1 holoprotein is cleaved into a D30-kDa N-terminal fragment (NTF) and a D20-kDa C-terminal fragment (CTF) by the 26S proteasome (PMID:10527805). It has 7 isoforms produced by alternative splicing. This antibody is specific to isoform1(53 kDa), isoform2(52 kDa), isoform4(21 kDa), isoform7(49 kDa) of this protein.

## Notable Publications

Author	Pubmed ID	Journal	Application
Laura Gerosa	35613587	Cell Rep	WB
Muhammad Mushtaq	29029400	Oncotarget	IHC
Xiaoqing Zhang	33723239	Cell Death Discov	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

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

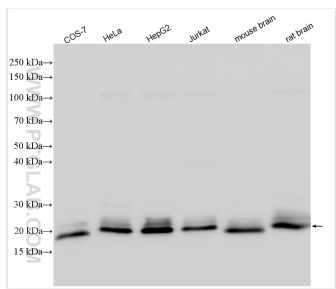
T: 4006900926

E: Proteintech-CN@ptglab.com

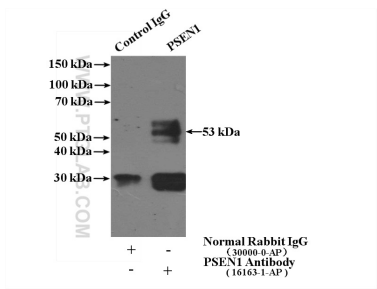
W: ptgcn.com

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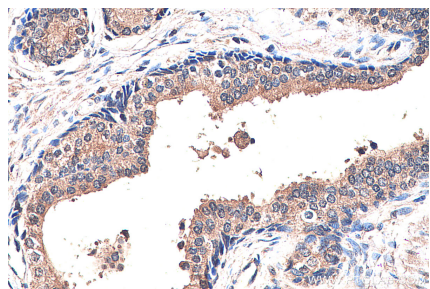
Selected Validation Data



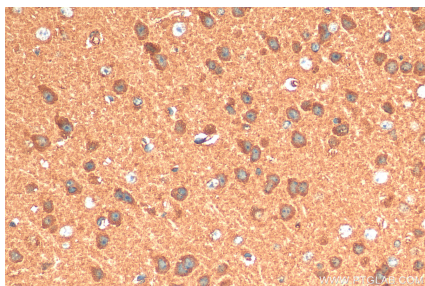
Various lysates were subjected to SDS PAGE followed by western blot with 16163-1-AP (Presenilin-1-Specific antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



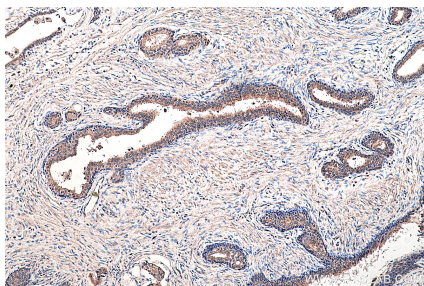
IP result of anti-Presenilin-1-Specific (IP:16163-1-AP, 4ug; Detection:16163-1-AP 1:1000) with mouse kidney tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 16163-1-AP (Presenilin-1-Specific antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 16163-1-AP (Presenilin-1-Specific antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 16163-1-AP (Presenilin-1-Specific antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).