APP/Beta Amyloid Polyclonal antibody

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Antibodies | ELISA kits | Proteins
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Catalog Number:25524-1-AP

Featured Product   **59 Publications**

Basic Information

Catalog Number:
25524-1-AP

Size:
150ul , Concentration: 550 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG22408

GenBank Accession Number:
BC065529

GeneID (NCBI):
351

UNIPROT ID:
P05067

Full Name:
amyloid beta (A4) precursor protein

Observed MW:
100 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

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 : SH-SY5Y cells, HAP1, mouse brain tissue, HeLa cells, rat brain tissue, C6 cells

IHC : human gliomas tissue, human brain tissue

Background Information

Aβ derives from APP via proteolytic cleavage by proteases called α-, β- and γ -secretase. The α-secretase cleavage precludes the formation of Aβ, while the β- and γ -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 β (Aβ) 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℃. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

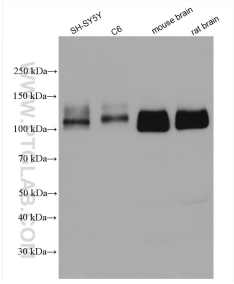***** 20ul sizes contain 0.1% BSA**

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.
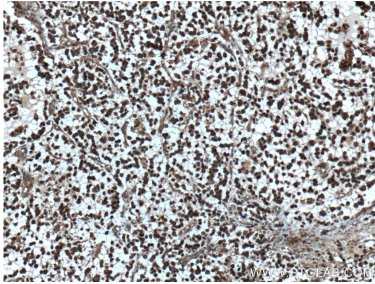
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 25524-1-AP (APP, C-Terminal antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).
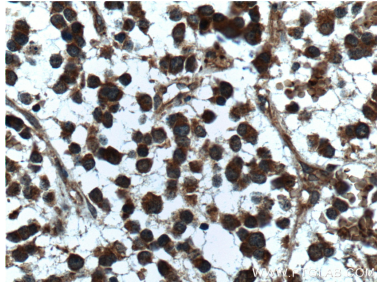
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 25524-1-AP (APP, C-Terminal antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).