

For Research Use Only

APLP2 Polyclonal antibody

Catalog Number: 15041-1-AP

4 Publications



Basic Information

Catalog Number:

15041-1-AP

Concentration:

650 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6838

GenBank Accession Number:

BC000373

GeneID (NCBI):

334

UNIPROT ID:

Q06481

Full Name:

amyloid beta (A4) precursor-like protein 2

Calculated MW:

87 kDa

Observed MW:

120 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:1000

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

IHC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, PLA

Species Specificity:

human, mouse, rat

Cited Species:

human, 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 : HEK-293 cells, mouse brain tissue, rat brain tissue

IP : mouse brain tissue,

IHC : mouse brain tissue,

Background Information

Amyloid precursor-like protein-2 (APLP2) is a member of the APP (amyloid precursor protein) family including APP, APLP1, and APLP2. APLP2 is ubiquitously expressed. It contains heparin-, copper- and zinc- binding domains at the N-terminus, BPTI/Kunitz inhibitor and E2 domains in the middle region, and transmembrane and intracellular domains at the C-terminus. APLP2 has been shown to regulate multiple cellular functions such as neurite outgrowth, axogenesis, corneal epithelial wound healing, cell adhesion, migration, and mitosis. The synergy of this protein and the APP is required to mediate neuromuscular transmission, spatial learning and synaptic plasticity. APLP2 has been implicated in the pathogenesis of Alzheimer's disease.

Notable Publications

Author	Pubmed ID	Journal	Application
Jennifer J Schwarz	34526379	Life Sci Alliance	WB, PLA
Steven J Tavalin	39732167	J Biol Chem	
Ke Liu	38449630	Heliyon	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:

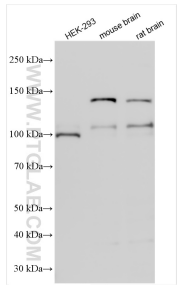
T: 4006900926

E: Proteintech-CN@ptglab.com

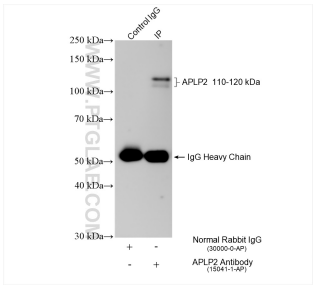
W: ptgcn.com

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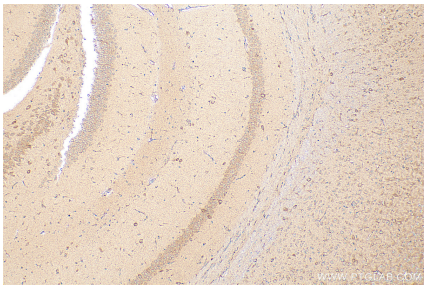
Selected Validation Data



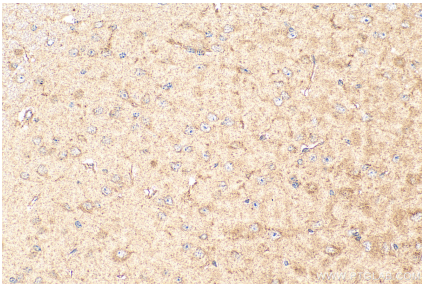
Various lysates were subjected to SDS PAGE followed by western blot with 15041-1-AP (APLP2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



IP result of anti-APLP2 (IP:15041-1-AP, 4ug; Detection:15041-1-AP 1:1000) with mouse brain tissue lysate 2100 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15041-1-AP (APLP2 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 mouse brain tissue slide using 15041-1-AP (APLP2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).