

APBB1 Polyclonal antibody

Catalog Number: 27874-1-AP

Basic Information

Catalog Number:

27874-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG27434

GenBank Accession Number:

BC010854

GeneID (NCBI):

322

UNIPROT ID:

O00213

Full Name:

amyloid beta (A4) precursor protein-binding, family B, member 1 (Fe65)

Calculated MW:

708 aa, 77 kDa

Observed MW:

65 kDa, 97 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

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

Applications

Tested Applications:

WB, IP, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : A549 cells, mouse brain tissue, SH-SY5Y cells, U-87 MG cells, U2OS cells, rat brain tissue

IP : mouse brain tissue,

Background Information

Adaptor protein FE65 (APBB1) specifically binds to the intracellular tail of the type I transmembrane protein, β -amyloid precursor protein (APP). FE65 is a multimodular adaptor protein, consisting of three major protein-protein interaction domains, a WW domain and two phosphotyrosine interaction domains (PID). The interaction between FE65 and APP mainly takes place between the C-terminal PID (PID2) and the APP intracellular domain (AICD) (PMID: 15647266). There is novel evidence that the major isoform of FE65 (97-kDa FE65, p97FE65) can be converted to a 65-kDa N-terminally truncated C-terminal fragment (p65FE65) via endoproteolysis. The cleavage region locates immediately after an acidic residue cluster but before the three major protein-protein binding domains (PMID: 15647266). FE65 is predominantly expressed in central nervous system neurons, and its expression is regulated during development and aging, with high levels corresponding to the timing of neural tissue formation and high neuronal activity (PMID: 7867517, PMID: 10561691, PMID: 14689444). p65FE65 (65kDa) is endoproteolytically cleaved from p97FE65 (97 kDa), the major isoform of FE65 (97-kDa FE65, p97FE65) can be converted to a 65-kDa N-terminally truncated C-terminal fragment (p65FE65) via endoproteolysis (PMID: 15647266).

Storage

Storage:

Store at -20°C. 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

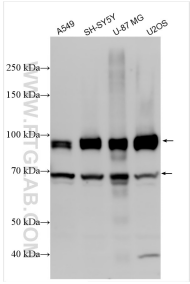
For technical support and original validation data for this product please contact:

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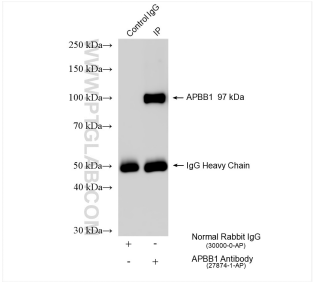
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27874-1-AP (APBB1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IP result of anti-APBB1 (IP:27874-1-AP, 4ug; Detection:27874-1-AP 1:3000) with mouse brain tissue lysate 2100 ug.