Product datasheet

Anti-Beta Amyloid/APP Antibody

Catalog Number: *A00081-3*

BOSTER
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Basic Information

Product Name	Anti-Beta Amyloid/APP Antibody
Gene Name	APP
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence of human APP/C99(DAEFRHDSGYEVHHQKLVFFAEDVGSNK).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	87-120KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

Amyloid precursor protein (APP) is an integral membrane protein expressed in many tissues and concentrated in the synapses of neurons. It is mapped to 21q21.3. This gene encodes a cell surface receptor and transmembrane precursor protein that is cleaved by secretases to form a number of peptides. Some of these peptides are secreted and can bind to the acetyltransferase complex APBB1/TIP60 to promote transcriptional activation, while others form the protein basis of the amyloid plaques found in the brains of patients with Alzheimer disease. In addition, two of the peptides are antimicrobial peptides, having been shown to have bacteriocidal and antifungal activities. Mutations in this gene have been implicated in autosomal dominant Alzheimer disease and cerebroarterial amyloidosis (cerebral amyloid angiopathy). Multiple transcript variants encoding several different isoforms have been found for this gene.

Selected Validation Data

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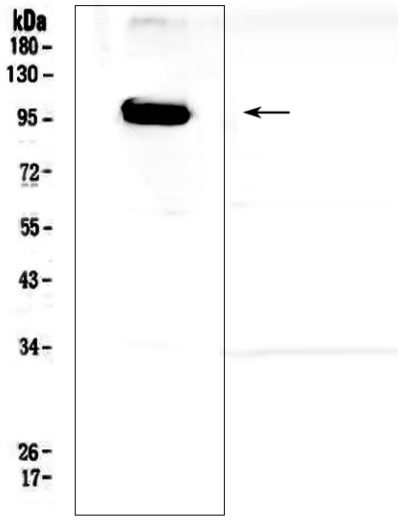

Figure 1. Western blot analysis of APP/C99 using anti-APP/C99 antibody (A00081-3). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human T-47D whole cell lysates. probed with a goat anti-rabbit IgG-HRP secondary antibody . The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) A specific band was detected for APP/C99 at approximately 87-120KD. The expected band size for APP/C99 is at 87KD.

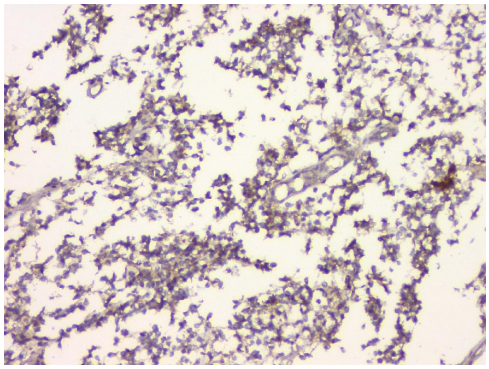

Figure 2. IHC analysis of C99 using anti-C99 antibody (A00081-3).C99 was detected in paraffin-embedded section of human glioma tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.