

# $\beta$ -Amyloid(1-42) Rabbit mAb

Catalog No.: A24422 **Recombinant**

## Basic Information

### Observed MW

### Calculated MW

87kDa

### Category

Primary antibody

### Applications

DB, IHC-P, IF/ICC, (ELISA)

### Cross-Reactivity

Mouse

### CloneNo number

ARC63663

## Background

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.

## Recommended Dilutions

**DB** 1:500-1:1000

**HC-P** 1:50 - 1:200

**IF/ICC** 1:50 - 1:200

**ELISA** Recommended starting concentration is 1  $\mu$ g/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

351

### Swiss Prot

P05067

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 691-770 of human  $\beta$ -Amyloid(NP\_000475.1).

### Synonyms

AAA; AD1; PN2; ABPP; APPI; CVAP; ABETA; PN-II; preA4; CTFgamma; alpha-sAPP;  $\beta$ -Amyloid(1-42)

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

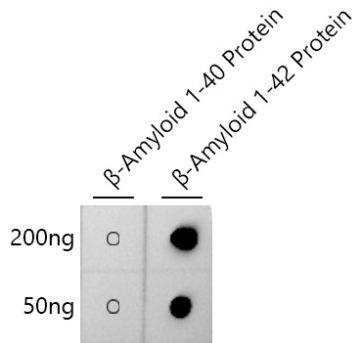
Affinity purification

### Storage

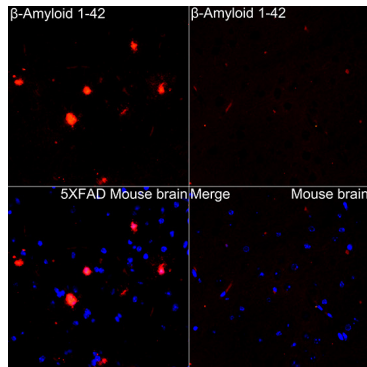
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

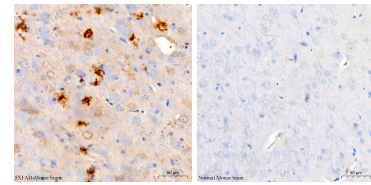
## Validation Data



Dot-blot analysis of  $\beta$ -Amyloid 1-40 and  $\beta$ -Amyloid 1-42 proteins using  $\beta$ -Amyloid(1-42) Rabbit mAb (A24422) at 1:1000 dilution.



Immunofluorescence analysis of paraffin-embedded 5XFAD Mouse brain (model for Alzheimer disease, left) and BALB/c Mouse brain (normal, right) using  $\beta$ -Amyloid(1-42) Rabbit mAb (A24422) at dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. Perform microwave antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IF staining protocol.



Immunohistochemistry analysis of paraffin-embedded 5XFAD Mouse brain (model for Alzheimer disease, Left) and BALB/c Mouse brain (normal, Right) using  $\beta$ -Amyloid(1-42) Rabbit mAb (A24422) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.