

Datasheet for ABIN6655723  
**anti-APP antibody**



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2 Images

1 Publication

## Overview

|              |   |
|--------------|---|
| Quantity:    | 100 µL  |
| Target:      | APP   |
| Reactivity:  | Human   |
| Host:        | Rabbit  |
| Clonality:   | Polyclonal  |
| Conjugate:   | This APP antibody is un-conjugated  |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP), Fluorescence Microscopy (FM) |

## Product Details

|                             |   |
|-----------------------------|---|
| Purpose:                    | Amyloid Oligomers (A11) Antibody  |
| Immunogen:                  | Amyloid Oligomers (A11) Antibody was produced from whole rabbit serum prepared by repeated immunizations with synthetic molecular mimic of soluble oligomers.                   |
| Isotype:                    | IgG   |
| Cross-Reactivity (Details): | A BLAST analysis was used to suggest cross-reactivity with Amyloid Oligomers (A11) from Eukaryotes, Human, Mouse, and Rat based on 100 % homology with the immunizing sequence. |
| Purification:               | Anti-Amyloid Oligomers (A11) Antibody was purified by Protein A chromatography.   |
| Sterility:                  | Sterile filtered  |

## Target Details

|         |     |
|---------|-----|
| Target: | APP |
|---------|-----|

## Target Details

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Alternative Name: [APP \(APP Products\)](#)

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Background: Synonyms: Rabbit Anti-Amyloid Oligomer  $\alpha\beta$  Antibody, Rabbit Anti-Amyloid Oligomer alpha beta Antibody, Rabbit Anti-Amyloid Oligomers A11 Antibody, Amyloid beta A4 protein, Amyloid Oligomer AlphaBeta Antibody, APP Antibody, ABPP, APPI, Alzheimer disease amyloid protein, Cerebral vascular amyloid peptide, PreA4, Protease nexin-II, A4, AD1

Background: Amyloid monomeric proteins can sometimes oligomerize into destructive amyloid fibrils. Amyloidogenic conformations of non-disease related proteins can be created by partial protein misfolding or denaturation. Many degenerative diseases are known to be related to the accumulation of misfolded proteins as amyloid fibres. These include the amyloid- $\beta$  peptide plaques and tau neurofibrillary tangles in senile plaques of Alzheimer's symptomology, the deposition of  $\alpha$ -synuclein in the Lewy bodies of Parkinson's disease, and accumulation of polyglutamine-containing aggregates in Huntington's disease. Anti-Amyloid Oligomers A11 Antibody is useful for researchers interested in Neuroscience research.

Gene Name: APP

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Gene ID: 8666

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NCBI Accession: [NM\\_000484](#)

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UniProt: [P05067](#)

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Pathways: [Caspase Cascade in Apoptosis](#), [EGFR Signaling Pathway](#), [Transition Metal Ion Homeostasis](#), [Skeletal Muscle Fiber Development](#), [Toll-Like Receptors Cascades](#), [Feeding Behaviour](#)

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## Application Details

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Application Notes: Immunoprecipitation\_Dilution: 1:200  
ELISA\_Dilution: 0.1-10  $\mu\text{g/mL}$   
Immunohistochemistry\_Dilution: 1:1000-10,000  
IF\_Microscopy\_Dilution: User Optimized  
Western\_Blot\_Dilution: 1:200

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Comment: Suggested Applications: Other  
Anti-Amyloid Oligomers (A11) Antibody is tested for use in IP, IF microscopy, IHC, and WB.  
Specific conditions for reactivity should be optimized by the end user.

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Restrictions: For Research Use only

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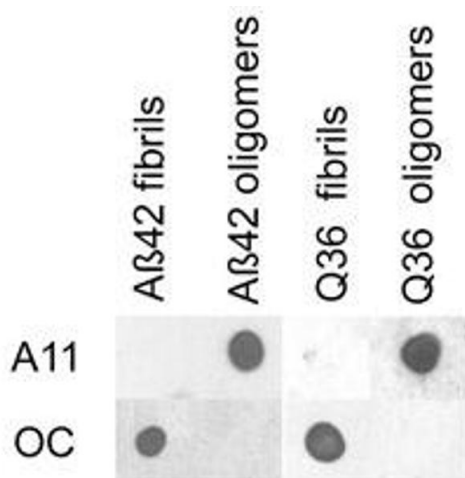
## Handling

|                    |   |
|--------------------|---|
| Format:            | Liquid  |
| Buffer:            | Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2<br>Stabilizer: 50 % (v/v) Glycerol<br>Preservative: 0.09 % (w/v) Sodium Azide  |
| Preservative:      | Sodium azide  |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.  |
| Storage:           | 4 °C, -20 °C  |
| Storage Comment:   | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| Expiry Date:       | 12 months   |

## Publications

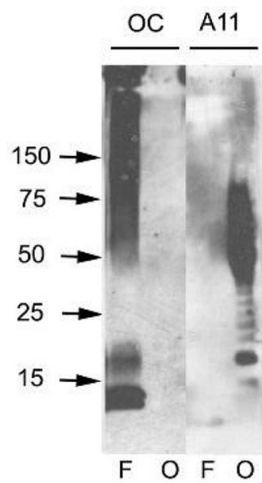
|                   |  |
|-------------------|--|
| Product cited in: | Peng, Achariyar, Li, Liao, Mestre, Hitomi, Regan, Kasper, Peng, Ding, Benveniste, Nedergaard, Deane: "Suppression of glymphatic fluid transport in a mouse model of Alzheimer's disease." in: <b>Neurobiology of disease</b> , Vol. 93, pp. 215-25, (2018) ( <a href="#">PubMed</a> ). |
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## Images



### Dot Blot

**Image 1.** Amyloid Oligomers Dot Blot Dot Blot of Rabbit Amyloid Oligomers (A11) antibody. Antigen: Aβ42 and polyQ36 prefibrillar oligomers and fibrils. Load: 2ug per dot. Primary antibody: Top row: Amyloid Oligomers (A11) or bottom row: Amyloid Fibrils (OC) at 1:400 for 45 min at 4°C. Secondary Antibody: Goat anti-rabbit IgG HRP at 1:10,000 for 45 min at RT. Block: 5% Blotto overnight at 4°C. Amyloid Oligomers (A11) reacts to Aβ42 oligomers and polyQ36 prefibrillar oligomers only.



### Western Blotting

**Image 2.** Amyloid Oligomers Western Blot. Western Blot of rabbit Anti-Amyloid Oligomers Antibody. Lane 1 and 3: (F) Fibrils. Lane 2 and 4: (O) prefibrillar oligomers. Load: 10ug per lane. Primary antibody: Anti-Amyloid Fibrils or Anti-Oligomers at 1:1000 for overnight at 4°C . Secondary antibody: Goat anti-rabbit IgG HRP antibody at 1:40,000 for 45 min at RT. Block: 5% Blotto overnight at 4°C. Predicted/Observed size: 18kDa on right blot (A11) in lane four.