

## Amyloid beta Recombinant Antibody | APP recombinant antibody

Anti-Amyloid beta (aa 4-10) [WO2]

|                              |                            |                                                                  |
|------------------------------|----------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA71946</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot, ELISA</b> |
|------------------------------|----------------------------|------------------------------------------------------------------|

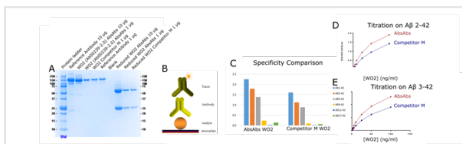
### PRODUCT SYNONYMS

Amyloid beta; Anti-Amyloid beta (aa 4-10) [WO2]; APP recombinant antibody

### PRODUCT SPECIFICATIONS

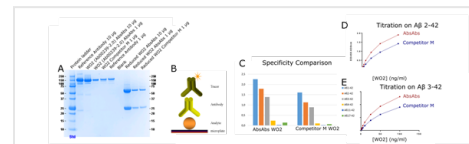
|                                                      |                                                                                                 |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Reactivity                                           | Human                                                                                           |
| Isotype                                              | Mouse IgG2a, kappa                                                                              |
| Clone Number                                         | WO2                                                                                             |
| Specificity                                          | Recognizes amino acid residues 4-10 of human Amyloid beta.                                      |
| Purity/Purification                                  | Protein A Affinity Purified                                                                     |
| Sequence Length                                      | 770                                                                                             |
| Applicable Applications for APP recombinant antibody | IHC (Immunohistochemistry), WB (Western Blot), ELISA                                            |
| Buffer Composition                                   | PBS only with 0.02% Proclin 300.                                                                |
| Immunogen                                            | Synthetic peptides, corresponding to amino acids 1-42 of human beta amyloid, conjugated to KLH. |
| Preparation and Storage                              | Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.  |

### IMAGES



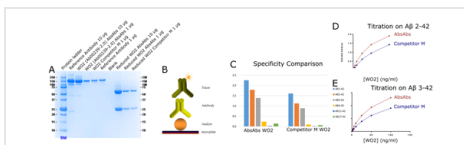
#### Application Data

Comparison of recombinant WO2 anti-Amyloid beta with hybridoma-derived WO2 from Competitor M. Panel A shows a Coomassie Blue-stained SDS-PAGE gel comparing by this method, comparative purity. Subsequently, the specificity of the antibodies was tested in assays detecting immobilised peptides (see B), in particular various Amyloid-beta derived peptides probed with WO2 (50 ng/ml) and a goat-anti-mouse peroxidase conjugated tracer as shown in C. The recombinant and hybridoma-derived antibody showed comparative selectivity, however higher signal intensity. Titration of recombinant and hybridoma derived WO2 against 2-42 (D) and 3-42 (E) indicates that the recombinant antibody has higher activity than the hybridoma-derived counterpart.



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## ADDITIONAL INFORMATION

|                                                                 |                                                                                                                                                                                                       |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for APP recombinant antibody</b> | Recombinant monoclonal antibody to Amyloid beta (aa 4-10). Manufactured using a Recombinant Platform with variable regions (i.e. specificity) from the hybridoma WO2.                                 |
| <b>Product Categories/Family for APP recombinant antibody</b>   | <a href="#">Neurodegeneration</a> ; <a href="#">Neurobiology</a>                                                                                                                                      |
| <b>References</b>                                               | Ida et al. Analysis of Heterogeneous betaA4 Peptides in Human Cerebrospinal Fluid and Blood by a Newly Developed Sensitive Western Blot Assay J Biol Chem. 1996 Sep 13; 271(37):22908-14 PMID:8798471 |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                          |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | 112927                                                                                                   |
| <b>NCBI GeneID</b>                      | 351                                                                                                      |
| <b>UniProt Accession #</b>              | P05067; P09000; P78438; Q13764; Q13778; Q13793; Q16011; B2R5V1; B4DII8; D3DSD1; D3DSD2; D3DSD3           |
| <b>Molecular Weight</b>                 | 84,521 Da                                                                                                |
| <b>NCBI Official Full Name</b>          | Amyloid beta A4 protein                                                                                  |
| <b>NCBI Official Synonym Full Names</b> | amyloid beta precursor protein                                                                           |
| <b>NCBI Official Symbol</b>             | APP                                                                                                      |
| <b>NCBI Official Synonym Symbols</b>    | AAA; AD1; PN2; ABPP; APPI; CVAP; ABETA; PN-II; CTFgamma                                                  |
| <b>NCBI Protein Information</b>         | amyloid beta A4 protein                                                                                  |
| <b>UniProt Protein Name</b>             | Amyloid beta A4 protein                                                                                  |
| <b>UniProt Gene Name</b>                | <b>APP</b>                                                                                               |
| <b>UniProt Synonym Gene Names</b>       | A4; AD1; APP; CVAP; PN-II; S-APP-alpha; S-APP-beta; AICD-59; AID(59); AICD-57; AID(57); AICD-50; AID(50) |
| <b>UniProt Entry Name</b>               | A4_HUMAN                                                                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/human-recombinant-antibody/amyloid-beta/71946>