



# Anti-APP (aa 672-681) polyclonal antibody (CPBT-66770RA)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                           |                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b>   | Rabbit anti amyloid precursor protein antibody recognises both intact APP and the 4kD Beta-amyloid peptides generated by the action of Beta and Gamma secretases. Deposition of Beta-amyloid peptide in the brain is characteristic of Alzheimers disease. APP also inhibits Notch signaling through it's interaction with NUMB. |
| <b>Specificity</b>        | AMYLOID PRECURSOR PROTEIN                                                                                                                                                                                                                                                                                                        |
| <b>Immunogen</b>          | Synthetic peptide corresponding to amino acids 672-681 of human APP or 1-10 of the Beta-amyloid peptide 40, Beta-amyloid peptide 42 and C99 peptide.                                                                                                                                                                             |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                                              |
| <b>Source/Host</b>        | Rabbit                                                                                                                                                                                                                                                                                                                           |
| <b>Species Reactivity</b> | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                |
| <b>Conjugate</b>          | Unconjugated                                                                                                                                                                                                                                                                                                                     |
| <b>Applications</b>       | IHC-P; WB                                                                                                                                                                                                                                                                                                                        |
| <b>Format</b>             | Purified IgG - liquid                                                                                                                                                                                                                                                                                                            |
| <b>Size</b>               | 100 µg                                                                                                                                                                                                                                                                                                                           |
| <b>Preservative</b>       | 0.09% Sodium Azide                                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>            | in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.                                                                                                                         |

# GENE INFORMATION

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|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name           | <a href="#">APP amyloid beta (A4) precursor protein [ Homo sapiens (human) ]</a>                                                                                                                                                                                                                          |
| Official Symbol     | APP                                                                                                                                                                                                                                                                                                       |
| Synonyms            | APP; amyloid beta (A4) precursor protein; AAA; AD1; PN2; ABPP; APPI; CVAP; ABETA; PN-II; CTFgamma; amyloid beta A4 protein; preA4; protease nexin-II; peptidase nexin-II; beta-amyloid peptide; beta-amyloid peptide(1-40); beta-amyloid peptide(1-42); alzheimer                                         |
| Entrez Gene ID      | <a href="#">351</a>                                                                                                                                                                                                                                                                                       |
| Protein Refseq      | <a href="#">NP_000475</a>                                                                                                                                                                                                                                                                                 |
| UniProt ID          | P05067                                                                                                                                                                                                                                                                                                    |
| Chromosome Location | 21q21.3                                                                                                                                                                                                                                                                                                   |
| Pathway             | Activated TLR4 signalling; Advanced glycosylation endproduct receptor signaling; Alzheimers disease; Alzheimers Disease; Amyloids; Caspase cascade in apoptosis; Class A/1 (Rhodopsin-like receptors); Cytosolic sensors of pathogen-associated DNA;                                                      |
| Function            | DNA binding; PTB domain binding; acetylcholine receptor binding; enzyme binding; growth factor receptor binding; heparin binding; identical protein binding; peptidase activator activity; protein binding; receptor binding; serine-type endopeptidase inhibitor activity; transition metal ion binding; |