

Product datasheet for **AP05817PU-N**

Amyloid Precursor Protein (APP) Rabbit Polyclonal Antibody

Product data:

| | |
|-----------------------|---|
| Product Type: | Primary Antibodies |
| Applications: | IHC, WB |
| Recommended Dilution: | Western Blot: 1/500-1/1000. Immunohistochemistry on Paraffin Sections: This antibody requires antigen retrieval using heat treatment prior to staining of paraffin sections. |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | Synthetic peptide corresponding to amino acids 737-751 of Human APP |
| Specificity: | This antibody recognises both <i>intact</i> APP, and also the C99 fragment generated by Beta-secretase. The sequence recognised by this antibody corresponds to amino acids 85-99 of the C99 fragment. The C99 fragment itself is a substrate for gamma-secretase to generate the 4kD beta amyloid peptide which is found in the brains of Alzheimer's disease patients. |
| Formulation: | PBS, pH 7.4 State: Purified State: Liquid purified IgG fraction Preservative: 0.02% Sodium Azide |
| Concentration: | lot specific |
| Purification: | Affinity Chromatography |
| Conjugation: | Unconjugated |
| Storage: | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | amyloid beta precursor protein |
| Database Link: | Entrez Gene 351 Human P05067 |



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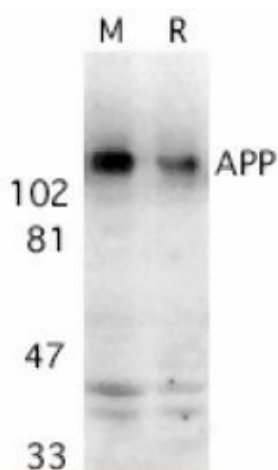
Background:

Amyloid beta precursor protein gene (ABPP) encodes a cell surface receptor and transmembrane precursor protein that is cleaved by secretases to form a number of peptides. Multiple transcript variants encoding several different isoforms have been found for this gene. Isoform APP695 is the predominant form in neuronal tissue, isoform APP751 and isoform APP770 are widely expressed in nonneuronal cells. Isoform APP751 is the most abundant form in T lymphocytes. ABPP is expressed in all fetal tissues examined with the highest levels in brain, kidney, heart and spleen with weak expression observed in liver; ABPP is induced during neuronal differentiation. In the adult brain, highest expression of ABPP gene is found in the frontal lobe of the cortex and in the anterior perisylvian cortex opercular gyri; moderate expression in the cerebellar cortex, the posterior perisylvian cortex opercular gyri and the temporal associated cortex. Weak expression is found in the striate, extra striate and motor cortices. Mutations in ABPP have been implicated in autosomal dominant Alzheimer disease and cerebroarterial amyloidosis (cerebral amyloid angiopathy).

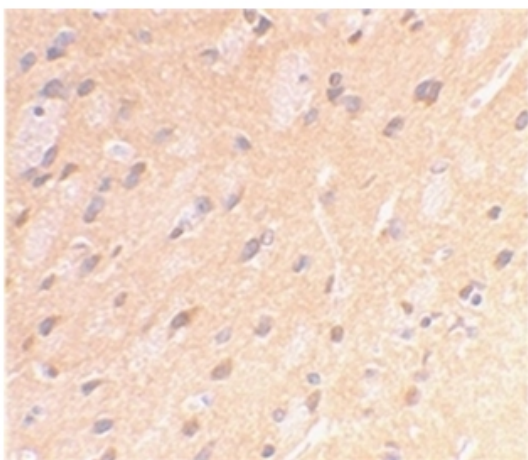
Synonyms:

Alzheimer disease amyloid protein, Amyloid Precursor Protein, ABPP, APPI, PreA4, Cerebral vascular amyloid peptide, CVAP

Product images:



Western Blot analysis of APP in Mouse (M) and Rat (R) brain tissue lysates with APP antibody



Immunohistochemical staining of Rat brain with APP antibody