OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AP02715PU-S

Amyloid Precursor Protein (APP) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	**Western Blot:** 1/500-1/1000. **Immunofluorescence:** 1/100-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide Sequence around amino acids 666~670 (A-V-T-P-E) derived from Human APP protein.
Specificity:	This antibody detects endogenous levels of total APP protein.
Formulation:	PBS (without Mg^{2+} and Ca^{2+}), pH 7.4 containing 150mM NaCl State: Aff - Purified State: Liquid purified IgG fraction Stabilizer: 50% Glycerol Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography using epitope-specific immunogen
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.
Predicted Protein Size:	100-140 kDa
Gene Name:	amyloid beta precursor protein
Database Link:	Entrez Gene 351 Human P05067

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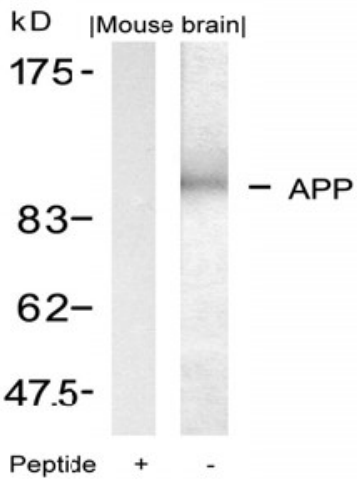
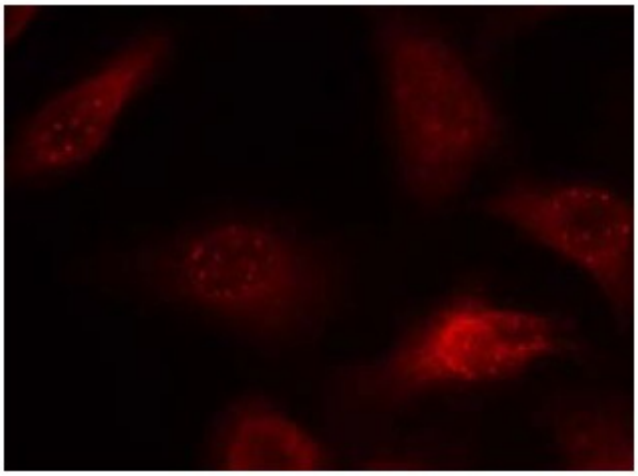
Background: Amyloid beta precursor protein gene (ABPP) encodes a cell surface receptor and transmembrane precursor protein that is cleaved by secretases to form a number of peptides. Multiple transcript variants encoding several different isoforms have been found for this gene. Isoform APP695 is the 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 extracts from mouse brain tissue using APP antibody and the same antibody preincubated with blocking peptide



Immunofluorescence staining of methanol-fixed MCF cells using APP antibody