

## DATASHEET

Version: 2016-08-17

### Amyloid Precursor Protein Antibody (671-685), pAb, Rabbit

**Cat. No.:** A00695-40

**Size:** 40 µg

**Synonyms:** Rabbit Anti-APP (671-685) pAb;

#### Description:

Amyloid precursor protein (APP) is a type I integral membrane protein with a large N-terminal extracellular domain, a single transmembrane domain, and a short cytoplasmic tail. APP is found in three main isoforms: APP695, APP751, and APP770. APP can be sequentially cleaved by beta-secretase and gamma-secretase to release beta-amyloid, which is the main component of senile plaque in patient brains inflicted with Alzheimer's disease.

GenScript **Rabbit Anti-APP (671-685) Polyclonal Antibody** is developed in rabbit using a synthetic peptide, MDAEFRHDSGYEVHH, corresponding to C terminal amino acids 671-685 of human APP, conjugated to KLH. GenScript Rabbit Anti-APP (671-685) Polyclonal Antibody is a valuable tool for scientists and neuropathologists who study the role of APP in Alzheimers' disease. GenScript Rabbit Anti APP (671-685) Polyclonal Antibody is highly purified from rabbit antiserum by immunoaffinity chromatography.

**Immunogen:** Synthetic peptide corresponding to amino acids 671-685 of Human Amyloid Precursor Protein conjugated to KLH

**Host:** Rabbit

**Antigen Synonyms:** Human

#### Formulation:

0.5 mg/ml in PBS, pH 7.4, containing 30% glycerol and 0.02%

sodium azide

**Specificity:** GenScript Rabbit Anti-APP (671-685) Polyclonal Antibody can detect both human recombinant APP and endogenous APP from cell lysates and tissue slides and mouse APP in brain tissue lysate.

**Purification:** Immunoaffinity chromatography

#### Applications:

The investigator must determine the ideal working concentration for each specific application. The ideal working concentration must take into account such factors as secondary antibody affinity, antigen concentration, sensitivity of the detection method, temperature, and the length of the incubations. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

**ELISA:** 0.05-0.2 µg/ml

**Western blot:** 0.1-1.0 µg/ml

**Immunofluorescence:** 5-20 µg/ml

#### Western Blot Using GenScript ONE-HOUR Western™ Kit:

For quick results, we recommend the GenScript ONE-HOUR Western™ Complete Kit (Rabbit) (L00204C). 10 µg of this antibody is mixed with 10 ml of WB solution for 8 cm X 8 cm membrane.

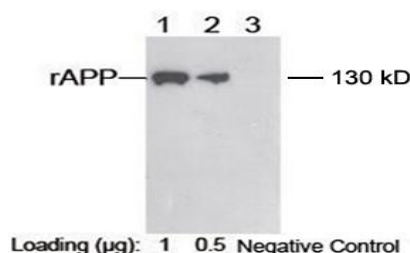
**Other applications:** user-optimized

**Species Reactivity:** Human and mouse

#### Storage:

The antibody is stable for 2-3 weeks if stored at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

#### Example



Lane 1-2: Recombinant human APP expressed in *E. coli* cell lysate

Lane 3: Negative *E. coli* cell lysate

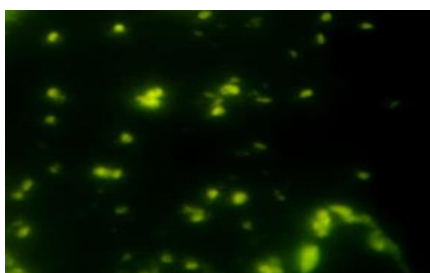
Primary Antibody: 1 µg/ml Rabbit Anti-APP (671-685) Polyclonal Antibody (GenScript, A00695)

Secondary Antibody: Goat Anti-Rabbit IgG (H&L) [HRP]

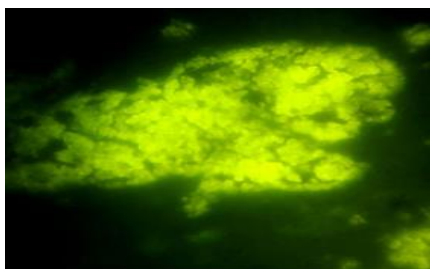
Polyclonal Antibody (GenScript, A00098, 1:5,000)

The signal was developed with LumiSensor™ HRP Substrate Kit

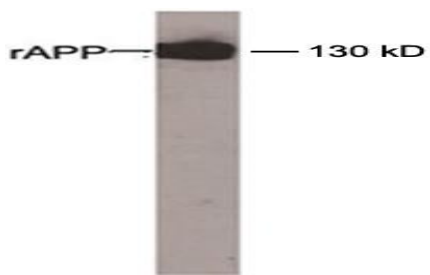
(GenScript, L00221V500)



Immunofluorescent analysis of human brain tissue slide using Rabbit Anti-APP (671-685) Polyclonal Antibody (GenScript, A00695)



Immunofluorescent analysis of human brain tissue slide using Rabbit Anti-APP (671-685) Polyclonal Antibody (GenScript, A00695)



Loading: Recombinant human APP expressed in *E. coli* cell lysate

Primary Antibody: Rabbit Anti-APP (671-685) Polyclonal Antibody (GenScript, A00695)

The result was developed with One-Step Western™ Complete Kit (Rabbit) (GenScript, L00204C)