DATASHEET

Version: 2016-08-17

APP Antibody (Phospho-Tyr^{757}), pAb, Rabbit

Cat. No.: A00697-40

Size: 40 µg

Synonyms: Rabbit Anti-APP (Phospho-Tyr^{757}) 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 as 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.

Phosphorylation of APP at Tyr757 and 762 is important for MAPK8IP1, APBA1, shcA/shcC, and DAB1 binding. Binding interactions regulated by phosphorylation determine the localization and the function of APP. For these reasons, Anti-APP (Phospho-Tyr^{757}) antibody can be useful in the tracing of the processing, distribution and interactions of APP.

GenScript **Rabbit Anti-APP (Phospho-Tyr^{757}) Polyclonal Antibody** is developed in rabbit using a synthetic phosphopeptide derived from human APP around the phosphorylation site of tyrosine 757 (N-G-Y^{P}-E-N), KLH-coupled.

Immunogen: Synthetic phosphopeptide derived from human APP around the phosphorylation site of tyrosine 757 (N-G-Y^{P}-E-N), KLH-coupled

Host: Rabbit

Antigen Synonyms: Human

Conjugation: Unconjugated

Formulation:

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

Ig Subclass: Rabbit IgG

Specificity: GenScript Rabbit Anti-APP (Phospho-Tyr^{757}) Polyclonal Antibody can specifically detect human APP (Phospho-Tyr^{757}) only when phosphorylated at threonine 757.

Purification: The antibody is purified from rabbit antiserum by affinity chromatography using epitope-specific phosphopeptide and cross-adsorbed with the corresponding non-phosphopeptide.

Applications:

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. 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: 0.5-2 µg/ml

Other applications: user-optimized

Species Reactivity: Human

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.