

Code No. 28055

**Anti-Mouse/Rat
APP (597) Rabbit IgG Affinity Purify**Volume : 100 µg

Introduction : Amyloid precursor protein (APP) is precursor protein of Amyloid β which is major constituent of senile plaque in Alzheimer's disease. It is known that there are three major isoforms. Processing of APP occurs by two major pathways, non-amyloidogenic pathway and amyloidogenic pathway. The non-amyloidogenic pathway is mediated by α - and γ -secretases and gives rise to a large fragment known as soluble APP α (sAPP α) and a small 3 kDa peptide known as p3. On the other hand, the amyloidogenic pathway is mediated by β - and γ -secretases and yields soluble APP β (sAPP β) and Amyloid β . The physiologic function of APP itself is not clear, however, it is supposed that the function of APP in neuron system is different from that in other organ.

Antigen : Synthetic peptide in portion of C terminus of Mouse/Rat sAPP α
(DAEFGHDSGFVHRHQK)

Purification : Purified with antigen peptide

Form : Lyophilized product from 1% BSA in PBS containing 0.05% NaN₃

How to use : 1.0 mL deionized water will be added to the product, then its concentration comes to 100 µg/mL.

Stability : Lyophilized product, 5 years at 2 - 8 °C
: Solution, 2 years at -20 °C

Application : This antibody can be used for western blotting in concentration of 1 - 5 µg/mL.
: This antibody can be used for immunoprecipitation in concentration of 3 µg/mL.

Specificity : Not cross-react with Human
: Not cross-react with sAPP β

Reference : 1. Citron M, Oltersdorf T, Haass C, McConlogue L, Hung AY, Seubert P, Vigo-Pelfrey C, Lieberburg I, Selkoe DJ. Mutation of the beta-amyloid precursor protein in familial Alzheimer's disease increases beta-protein production. *Nature*. 1992 Dec 17;360(6405):672-4.
2. Goate A, Chartier-Harlin MC, Mullan M, Brown J, Crawford F, Fidani L, Giuffra L, Haynes A, Irving N, James L, et al. Segregation of a missense mutation in the amyloid precursor protein gene with familial Alzheimer's disease. *Nature*. 1991 Feb 21;349(6311):704-6.
3. Selkoe DJ. Normal and abnormal biology of the beta-amyloid precursor protein. *Annu Rev Neurosci*. 1994;17:489-517.

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