

Code No. 28055

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

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**Introduction** : Amyloid precursor protein (APP) is precursor protein of Amyloid  $\beta$  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  $\alpha$ - and  $\gamma$ -secretases and gives rise to a large fragment known as soluble APP $\alpha$  (sAPP $\alpha$ ) and a small 3 kDa peptide known as p3. On the other hand, the amyloidogenic pathway is mediated by  $\beta$ - and  $\gamma$ -secretases and yields soluble APP $\beta$  (sAPP $\beta$ ) and Amyloid  $\beta$ . 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 $\alpha$  (DAEFGHDSGFVHRHQK)

**Purification** : Purified with antigen peptide

**Form** : Lyophilized product from 1% BSA in PBS containing 0.05% NaN<sub>3</sub>

**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/test.

**Specificity** : Not cross-react with Human  
: Not cross-react with sAPP $\beta$

**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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