

Code No. 10321

**Anti-Human  
sAPP $\beta$ -sw (6A1) Mouse IgG MoAb**Volume : 100  $\mu$ g

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- Introduction** : Amyloid $\beta$  is derived by the sequential cleavage of amyloid precursor protein (APP) by beta- and gamma-secretases. A double missense mutation (Lys670 $\rightarrow$ Asn and Met671 $\rightarrow$ Leu) in APP found in a Swedish pedigree (APP $\beta$ -sw) elevates A $\beta$ 40 and A $\beta$ 42 production (ref. 1), and the mutation is utilized in establishment of transgenic mice overexpress a mutant form of human amyloid precursor protein (ref. 2). Amyloid $\beta$  production and, beta-secretase cleavage of APP $\beta$ -sw reportedly occur in the endoplasmic reticulum (ER), Golgi and endocytic compartments (ref. 3).
- Antigen** : Synthetic peptide of the C-terminal part of human sAPP $\beta$ -sw (ISEVNL)
- Source** : Mouse-Mouse hybridoma  
(X63 - Ag 8.653  $\times$  BALB/c mouse spleen cells)
- Clone** : 6A1      **Subclass** : IgG<sub>3</sub>
- Purification** : Affinity purified with Protein A
- Form** : Lyophilized product from PBS containing 1 % BSA and 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  $\mu$ g/mL
- Stability** : Lyophilized product, 5 years at 2 - 8  $^{\circ}$ C  
: Solution, 2 years at -20  $^{\circ}$ C
- Application** : This antibody shows positive signals in immunocytochemistry with sAPP $\beta$ -sw gene transfected COS cells after fixation by 20% formalin containing methanol solution without any pretreatment by Avidin Biotin Complex (ABC) Method. On the other hand, the antibody doesn't show positive signals with sAPP $\beta$ -wild type gene transfected COS cells by same procedure. The optimal concentration is about 2  $\mu$ g/mL, however, the concentration should be optimized by each laboratory.  
: This antibody can be used for western blotting in concentration about 5  $\mu$ g/mL  
: This antibody can not be used for immunoprecipitation.
- Specificity** : Specific for soluble Amyloid $\beta$  fragment cleaved by  $\beta$ -secretase having Swedish mutation. Not cross-react with sAPP $\beta$  of wild type and recombinant full length APP of both Swedish and wild types.
- 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 amilial Alzheimer's disease increases beta-protein production. *Nature* 360 (6405): 672-674 (1992)  
2. Hsiao K, Chapman P, Nilsen S, Eckman C, Harigaya Y, Younkin S, Yang F, Cole G. Correlative memory deficits, Abeta elevation, and amyloid plaques in transgenic mice. *Science* 274 (5284): 99-102 (1996)  
3. Steinhilb mL, Turner RS, Gaut JR. ELISA analysis of beta-secretase cleavage of the Swedish amyloid precursor protein in the secretory and endocytic pathways. *J Neurochem* 80 (6): 1019-28 (2002)

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*For research use only, not for use in diagnostic procedures.*

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**Anti-Human  
sAPP $\beta$ -sw (6A1) Mouse IgG MoAb**Volume : 10  $\mu$ g

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- Clone** : 6A1      **Subclass** : IgG<sub>3</sub>
- Purification** : Affinity purified with Protein A
- Form** : Lyophilized product from PBS containing 1 % BSA and 0.05 % NaN<sub>3</sub>
- How to use** : 0.1 mL deionized water will be added to the product, then its concentration comes to 100  $\mu$ g/mL
- Stability** : Lyophilized product, 5 years at 2 - 8 °C  
: Solution, 2 years at -20 °C
- Application** : This antibody shows positive signals in immunocytochemistry with sAPP $\beta$ -sw gene transfected COS cells after fixation by 20% formalin containing methanol solution without any pretreatment by Avidin Biotin Complex (ABC) Method. On the other hand, the antibody doesn't show positive signals with sAPP $\beta$ -wild type gene transfected COS cells by same procedure. The optimal concentration is about 2  $\mu$ g/mL, however, the concentration should be optimized by each laboratory.  
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