

Code No. 10321

**Anti-Human
sAPP -sw (6A1) Mouse IgG MoAb**

Volume : 100 µg

Lot No : 0G-231

sAPP -sw: soluble Amyloid Precursor Protein -Swedish

Introduction : Amyloid is derived by the sequential cleavage of amyloid precursor protein (APP) by beta- and gamma-secretases. A double missense mutation (Lys670 Asn and Met671 Leu) in APP found in a Swedish pedigree (APP -sw) elevates Abeta40 and Abeta42 production (1), and the mutation is utilized in establishment of transgenic mice overexpress a mutant form of human amyloid precursor protein (2). Amyloid production and, beta-secretase cleavage of APP -sw reportedly occur in the endoplasmic reticulum (ER), Golgi and endocytic compartments (3).

Antigen : Synthetic peptide for C-Terminal of Human sAPP -sw (ISEVNL)

Source : Mouse-Mouse hybridoma supernatant (X63-Ag8.653 x BALB/c mouse)

Clone : 6A1

Subclass : IgG3

Purification : Purified with protein A

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

How to use : 1.0 ml distilled water will be added to the product, then the concentration comes to 100 ug/ml

Dilution : PBS (pH7.4) containing 1% BSA and 0.05% NaN₃

Stability : Lyophilized product, 5 years at 2 – 8
: Solution, 2 years at –20

Application : This antibody can be stained in sAPP -sw gene transfected COS cells after fixation by 20% formalin containing methanol solution without any pretreatment by several cytochemical techniques such as Avidin Biotin Complex (ABC) Method. On the other hand, the antibody can not stained sAPP -wild type gene transfected COS cells by same procedure. The optimal dilution is about 5 µg/ml, however, the dilution rate should be optimized by each laboratories.

: This antibody can be used for western blotting in concentration of about 5 µg /ml.
: This antibody can not be used for immuno-precipitation.

Specificity : The antibody is specific for soluble Amyloid Precursor Protein of Swedish type cleaved by -secretase. The antibody can not cross reacts with not only the cleaved soluble Amyloid Precursor Protein of wild type but also the full length APP of both Swedish and wild types.

References : 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* **360** (6405): 672-4 (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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