COSMO BIO CO., LTD.
Inspiration for Life Science

MONOCLONAL ANTIBODY

Catalog No. YCU-MK-AP01

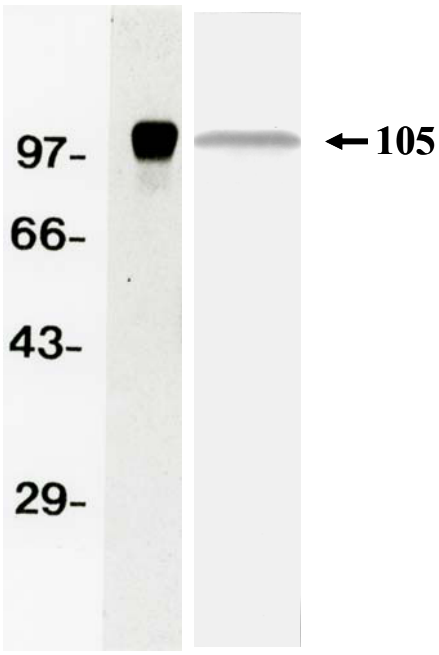
Anti APP (β-amyloid precursor protein)

Product type	Primary antibodies
Host	Mouse
Source	
Form	Liquid PBS (pH7.2) with 0.02% NaN_3 as a preservative.
Volume	100 μl
(Concentration)	(1.0 mg/ml)
Specificity	Recognizes a sAPP sequence between residues 580 and 671. It also detects membrane-bound APP.
Antigen	Human soluble β-amyloid precursor protein (sAPP)
Clone	278
Isotype	

Application notes	WB (Not tested in other applications.) **Recommended use** **Recommended dilutions** Western blotting, 1/1000 to 1/2000 depending on detection method. Predicted molecular weight: 105 kDa for sAPP and 115 kDa for Membrane-bound mature APP. Optimal dilutions/concentrations should be determined by the end user. **Staining Pattern**
Cross reactivity	Reacts with human antigen. Not tested for other species.
Storage	Store below -20°C (below -70°C for prolonged storage). Aliquot to avoid cycles of freeze/thaw.

References

1) Higashi, S. and Miyazaki, K.: Novel processing of β-amyloid precursor protein catalyzed by membrane type 1 matrix metalloproteinase releases a fragment lacking the inhibitor domain against gelatinase A. Biochemistry, 42: 6514-6526, 2003.
2) Higashi, S., Miyazaki, K.: Identification of a region of beta-amyloid precursor protein essential for its gelatinase A inhibitory activity. J Biol Chem. 278(16): 14020-14028, 2003
3) Miyata, S., Koshikawa, N., Higashi, S., Miyagi, Y., Nagashima, Y., Yanoma, S., Kato, Y., Yasumitsu H., Miyazaki, K.: Expression of trypsin in human cancer cell lines and cancer tissues and its tight binding to soluble form of Alzheimer amyloid precursor protein in culture. J Biochem. 125(6): 1067-1076, 1999
4) Koshikawa, N., Nakamura, T., Tsuchiya, N., Isaji, M., Yasumitsu, H., Umeda, M., Miyazaki, K.: Purification and identification of a novel and four known serine proteinase inhibitors secreted by human glioblastoma cells. J Biochem. 119(2): 334-339, 1996



Western Blot Analysis for purified APP (soluble) and supernatant of Human Fibrosarcoma Cell Line HT1080 (left).

For research use only. Not for clinical diagnosis.

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