



## Product Information Sheet

### Monoclonal Anti-MAP2

**Catalogue No.** MA1057

**Lot No.** 08A12

**Clone:** MP-2

**Ig type:** mouse IgG1

**Size:** 100µg/vial

#### Specificity

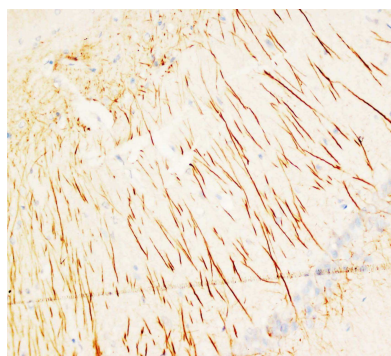
Human, rat, mouse

No cross reactivity with other proteins.

#### Recommended application

*Western blot*

*Immunohistochemistry(P)*



#### Immunogen

Rat brain microtubule-associated proteins (MAPs)

#### Purification

Purified by the goat anti-mouse IgG affinity chromatography.

#### Application

*Western blot*

At 0.5-2µg/ml with the appropriate system to detect MAP2 in cells and tissues.

*Immunohistochemistry(P)*

At 1-2µg/ml to detect MAP2 in formalin fixed and paraffin embedded tissues.

*Other applications have not been tested.*

*Optimal dilutions should be determined by end user.*

#### Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN<sub>3</sub> as preservative.

#### Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

#### Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

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**Antagene, Inc.**  
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## **BACKGROUND**

MAP2, a 280-kD protein, is highly concentrated in neuronal somata and dendrites. Microtubule-associated protein 2 (MAP2) is a neurosteroid receptor. MAP2 gene contains 19 exons, and located in segment 2q34-q35. The transgenic MAP2c was present in dendrites but not in axons but transgenic MAP2c messenger RNA was limited to cell bodies.

## **REFERENCE**

- 1 Fontaine-Lenoir, V.; Chambraud, B.; Fellous, A.; David, S.; Duchosoy, Y.; Baulieu, E.-E.; Robel, P. : Microtubule-associated protein 2 (MAP2) is a neurosteroid receptor. *Proc. Nat. Acad. Sci.* 103: 4711-4716, 2006.
- 2 Neve, R. L.; Harris, P.; Kosik, K. S.; Kurnit, D. M.; Donlon, T. A. : Identification of cDNA clones for the human microtubule-associated protein tau and chromosomal localization of the genes for tau and microtubule-associated protein 2. *Molec. Brain Res.* 1: 271-280, 1986.
- 3 Kalcheva, N.; Albala, J.; O'Guin, K.; Rubino, H.; Garner, C.; Shafit-Zagardo, B. : Genomic structure of human microtubule-associated protein 2 (MAP-2) and characterization of additional MAP-2 isoforms. *Proc. Nat. Acad. Sci.* 92: 10894-10898, 1995.