

**Antibody to MAP2 (AA5 (AP18))**
MOUSE MONOCLONAL

Catalog Number: AB-V45
Quantity: 100 micrograms
Format: PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative.
Host: Mouse
Isotype: IgG2a
Clone: AA5 (AP18)
Immunogen: Bovine MAP2

Background: Microtubule-associated proteins (MAPs) are a group of proteins that bind to and stabilize microtubules within the cellular cytoskeleton. Microtubule-associated protein 2 (MAP2), encoded by the MAP2 gene, is a member of this family. In research, MAP2 antibodies are commonly used to identify neuronal cells and to trace dendritic processes. Dysregulation or alteration of MAP2 has been linked to diseases such as central neurocytoma and olivopontocerebellar atrophy.

Specificity & Preparation: This IgG2a mouse antibody is generated against taxol-stabilized microtubules from rat brain and recognizes mammalian homologs of MAP-2.

Usage: Applications include western blot, immunohistochemistry, immunoprecipitation, and immunofluorescence. Working dilutions must be determined by end user.

Storage: Store antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

**Selected References:**

1. Tucker RP, Binder LI, Viereck C, Hemmings BA, Matus AI (1988) The sequential appearance of low- and high-molecular-weight forms of MAP2 in the developing cerebellum. *J Neurosci* 8 (12):4503-4512. doi: 10.1523/JNEUROSCI.08-12-04503.1988 PMID: 3199190

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