Antibody to MAP1B (AA9 (1D9-H6-C2))
MOUSE MONOCLONAL

Catalog Number:	AB-V47
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:	AA9 (1D9-H6-C2)
Immunogen:	Taxol-stabilized microtubules from rat brain

Background: Microtubules are dynamic cytoskeletal structures essential for diverse functions in eukaryotic cells, including chromosome movement during mitosis and meiosis, intracellular transport, cell shape maintenance, growth, migration, and morphogenesis. Their stability and organization are regulated by microtubule-associated proteins (MAPs), which bind to tubulin subunits along the microtubule lattice. MAP1B, a major neuronal MAP, has been shown through mouse gene knockout studies to play a critical role in the development and function of the nervous system.

Specificity & Preparation: This IgG2a mouse antibody is generated against taxol-stabilized microtubules from rat brain and recognizes mammalian homologs of MAP-1B.

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.

Scan to view all product references.

Selected References:
1. Katsetos CD, Herman MM, Balin BJ, Vinores SA, Hessler RB, Arking EJ, Karkavelas G, Frankfurter A (1998) Class III beta-tubulin isotype (beta III) in the adrenal medulla: III. Differential expression of neuronal and glial antigens identifies two distinct populations of neuronal and glial-like (sustentacular) cells in the PC12 rat pheochromocytoma cell line maintained in a Gelfoam matrix system. Anat Rec 250(3):351-365. doi: 10.1002/(SICI)1097-0185(199803)250:3<351::AID-AR10>3.0.CO;2-N PMID: 9517852

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