

MAP1B / MAP5 (Microtubule-Associated Protein) Ab-1 (Clone 3G5)**Mouse Monoclonal Antibody**

Cat. #MS-248-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)

Cat. #MS-248-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)

Cat. #MS-248-B0, -B1, or -B (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Biotin-Labeled Ab with BSA and Azide)

Cat. #MS-248-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

Cat. #MS-248-PCS (5 Slides) (Positive Control for Histology)

Description: Microtubule-associated protein 1B (MAP1B, also known as MAP5, MAP1.2, MAP1(x), or MAP1X) is different from MAP1A (also known as MAP1 or MAP1.1). Reportedly, MAP1B/MAP5 is an early MAP; it is present at high levels in embryonic and newborn rat brain and declines several-fold upon brain maturation. In several cellular situations, MAP1B/MAP5 is the first neuronal MAP to appear, and it is found in neurites from their very first emergence from the cell body. Expression of MAP1B/MAP5 is induced by nerve growth factor.

Mol. Wt. of Antigen: 320kDa Doublet

Epitope: Not determined

Species Reactivity: Human, Cow, and Rat. Does not react with chicken. Others-not known.

Clone Designation: 3G5

Ig Isotype: IgG₁

Immunogen: Purified bovine brain MAPs

Applications and Suggested Dilutions:

- Immunofluorescence
 - Western Blotting (Not verified)
 - Immunohistology (Formalin/paraffin) (Ab 1-2µg/ml for 30 min at RT)
- * [No special pretreatment is required for staining of formalin-fixed tissues.]

The optimal dilution for a specific application should be determined by the investigator.

Positive Control: Brain

Cellular Localization: Cytoplasmic

Storage and Stability: Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Supplied As: 200µg/ml antibody purified from the bioreactor concentrate by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml. Or Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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