PRODUCT DATA SHEET

Product: **Anti-MAP1B / MAP5 (Microtubule-Associated Protein) mAb, clone 3G5**

Cat. No.: **MC-735 (100 µg)**

Synonyms:
Anti-MAP5, anti-MAP1.2, anti-MAP1(x), anti-MAP1X

Background:
Microtubule-associated protein 1B (MAP1B) is an early phase 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 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 is induced by nerve growth factor. MAP1B is different than MAP1A (also known as MAP1 or MAP1.1).

Specificity:
Clone 3G5 recognizes a protein of 320 kDa identified as MAP1B, MAP5, MAP1.2, MAP1(x) or MAP1X. This antibody reacts with MAP1B. Highly specific for MAP1B and shows no cross-reactivity with other MAPs, tau and tubulin.

Positive Control:
Brain

Cellular Localization:
Cytoplasmic

Species Reactivity:
Human, bovine and rat. Does not react with chicken. Others not tested.

Ig Isotype:
Mouse IgG_1

Immunogen:
Purified bovine brain MAPs

Molecular Weight of Antigen:
320 kDa doublet

Epitope:
Not determined.

Format:
500 µL of 200 µg/mL monoclonal antibody in 10 mM PBS, pH 7.4, with protein stabilizer and 0.09% sodium azide. Purified from bioreactor concentrate by Protein G chromatography.

Storage:
Store at 4°C.

Applications and Suggested Dilutions:
- Immunofluorescence
- Immunohistochemistry: (Formalin/ paraffin) Use at 1-2 µg/mL for 30 min. at RT.
- Western blot: (Not verified)

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

Limitations:
For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:
No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.