



## **MAP1B (Microtubule Associated Protein 1B, DKFZp686E1099, DKFZp686F1345, FLJ38954, FUTSCH, MAP5)**

### **Catalog number**

M2345-05A

### **Supplier**

United States Biological

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.

### **Applications**

Suitable for use in Western Blot, Immunohistochemistry, Immunofluorescence/Immunocytochemistry. Other applications not tested.

### **Recommended Dilutions**

Western Blot: 1:500  
Immunohistochemistry: 1:10-1:2000  
Immunofluorescence (IC): 1:10-1:2000  
Optimal dilutions to be determined by the researcher.

### **Positive Control**

Rat Brain Whole Tissue Lysate (Adult Normal)

### **Storage and Stability**

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

### **Immunogen**

Rat brain microtubule associated proteins.  
Cellular Localization: Cytoplasmic. Species Sequence Homology: hamster

### **Formulation**

Supplied as a liquid, 15mM sodium azide

### **Purity**

Ascites

### **Specificity**

Recognizes rat MAO1B. Does not react with tubulin of other MAPs or tubulin. Species Crossreactivity:



human, mouse, bovine, feline and chicken.

**Product Type**

Mab

**Source**

rat

**Isotype**

IgG1

**Grade**

Ascites

**Applications**

IC IF IHC WB

**Crossreactivity**

Bo Ch Fe Hu Mo Rt

**Storage**

-20°C

**Reference**

1. Matus A et al. Influence of monoclonal antibodies on microtubule assembly. J Neurochem 49:714-20 (1987). 2. Riederer B et al. MAP5: a novel brain microtubule-associated protein under strong developmental regulation. J Neurocytol 15:763-75 (1986).