



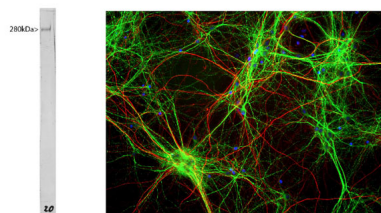
Mouse anti-Microtubule Associated Protein 2 (MAP2) [5H11]: IgG

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| Catalogue No.: | M-1625-100 |
| Description: | Microtubules are 25nm diameter protein rods found in most kinds of eukaryotic cells. They are polymerized from a dimeric subunit made of one 'a' subunit and one 'b' tubulin subunit. Microtubules are associated with a family of proteins called microtubule associated proteins (MAPs), which includes the protein t (tau) and a group of proteins referred to as MAP1, MAP2, MAP3, MAP4 and MAP5. MAP2 is made up of two ~280kDa apparent molecular weight bands referred to as MAP2 a and MAP2 b. A third lower molecular weight form, usually called MAP2c, corresponds to a pair of protein bands running at ~70kDa on SDS-PAGE gels. All these MAP2 forms are derived from a single gene by alternate transcription, and all share a C-terminal sequence which includes either three or four microtubule binding peptide sequences, which are very similar to those found in the related microtubule binding protein t (tau). MAP2 isoforms are expressed only in neuronal cells and specifically in the perikarya and dendrites of these cells. Antibodies to MAP2 are therefore excellent markers on neuronal cells, their perikarya and neuronal dendrites. |
| Batch No.: | See product label |
| Unit size: | 100 uL |
| Antigen: | High molecular MAP protein preparation derived from bovine brain |
| Clone: | 5H11 |
| Other Names: | Microtubule-associated protein 2; MAP-2; Mtap2; |
| Accession: | Q0IIA8 MAP2_Bovine |
| Produced in: | Mouse |
| Molecular Weight: | http://http://www.uniprot.org/uniprot/Q0IIA8 |
| Purity: | IgG |
| Applications: | Immunohistochemistry (IHC) and Western Blotting (WB). A dilution of 1:5,000-1:10,000 is recommended for WB. A dilution of 1:500-1:1000 is recommended for IHC. The optimal dilution should be determined by the end user. |
| Specificity: | The specificity of this antibody has been confirmed by WB and IHC against the antigen. |
| Cross-reactivity: | Human; Rat; Mouse; |
| Form: | Liquid in PBS with 50% glycerol and 5mM NaN ₃ . |
| Storage: | Maintain unopened vial at -20degC for up to 12 months after purchase. After opening, aliquot and store at -20C for a higher stability for up to six months. Avoid freeze-thaw cycles. |
| Expiry Date: | 12 months after purchase. |

FOR RESEARCH USE ONLY



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Whole rat brain lysate with mouse anti-MAP2 antibody. The antibody recognizes the ~280 kDa protein. Right: Mixed neuron/glia cultures stained with mouse anti-MAP2 (green) and also rabbit antibody to neurofilament H (Catalog Number R-1388-50) (red). Since the NF-H protein is largely expressed in neuronal axons, while the MAP2 is only found in neuronal dendrites and perikarya, there is little overlap between these two staining patterns. DNA stain shows nuclei of neurons and non-neuronal cells (blue).

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