

Mouse Microtubule Associated 2 (MAP2) Monoclonal Antibody | anti-MAP2 antibody

Microtubule Associated Protein 2 (MAP2)

CATALOG # AAA72831	HOST Mouse	APPLICATIONS Immunohistochemistry, Immunofluorescence, Western Blot
------------------------------	----------------------	---

PRODUCT SYNONYMS

Microtubule Associated 2 (MAP2); Monoclonal Antibody; Microtubule Associated Protein 2 (MAP2); DKFZp686I2148 antibody; MAP 2 antibody; MAP dendrite specific antibody; MAP-2 antibody; MAP2 antibody; MAP2A antibody; MAP2B antibody; MAP2C antibody; Microtubule associated protein 2 antibody; Microtubule-associated protein 2 antibody; MTAP2_HUMAN antibody; anti-MAP2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	4H5
Purity/Purification	Protein G purified culture supernatant
Form/Format	100ul in PBS + 50% glycerol + 5 mM sodium azide. Adequate amount of material to conduct 10-mini Western Blots.
Applicable Applications for anti-MAP2 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), WB (Western Blot)
Species Positively Tested	Bovine, Human, Mouse, Rat
Immunogen Species	Bovine
Immunogen Information	Purified bovine protein
Antigen	The antigen is purified bovine MAP2. The antibody is protein G purified from culture supernatant.
Preparation and Storage	Storage at -20 degree C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20 degree C. Shipping: Blue Ice Country of Origin: USA

IMAGES



WB (Western Blot)

Western blot of mouse cortical lysate showing specific immunolabeling of the ~280 kDa MAP2 protein.



IHC (Immunohistochemistry)

Immunostaining of rat hippocampus showing specific labeling of neuronal dendrites and perikarya with Anti-Microtubule Associated Protein 2 in green, FOX3 in red and nuclei in blue.

ADDITIONAL INFORMATION

Related Product Information for anti-MAP2 antibody	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 (tau) and a group of proteins referred to as MAP1, MAP2, MAP3, MAP4 and MAP5 (Kindler & Gardner 1994). MAP2 is made up of two ~280 kDa apparent molecular weight bands referred to as MAP2a and MAP2b. A third lower molecular weight form, usually called MAP2c, corresponds to a pair of protein bands running at ~70 kDa 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 tau. MAP2 isoforms are expressed only in neuronal cells and specifically in the perikarya and dendrites of these cells. MAP2 has been recently shown to be the specific receptor for the neurosteroid pregnenolone (Fontaine-Lenore V. et al., 2006).
Product Categories/Family for anti-MAP2 antibody	Cell Markers; Neuronal Markers

NCBI AND UNIPROT INFORMATION

NCBI GI #	87578396
NCBI GeneID	4133
NCBI Accession #	NP_002365.3
NCBI GenBank Nucleotide #	NM_002374.3
UniProt Accession #	P11137; Q17S04; Q8IUX2; Q99975; Q99976
Molecular Weight	199,526 Da
NCBI Official Full Name	microtubule-associated protein 2 isoform 1
NCBI Official Synonym Full Names	microtubule-associated protein 2
NCBI Official Symbol	MAP2
NCBI Official Synonym Symbols	MAP2A; MAP2B; MAP2C
NCBI Protein Information	microtubule-associated protein 2; MAP-2
UniProt Protein Name	Microtubule-associated protein 2
UniProt Gene Name	MAP2
UniProt Synonym Gene Names	MAP-2
UniProt Entry Name	MTAP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.