

Mouse MAP2 Monoclonal Antibody | anti-MAP2 antibody

MAP2 Antibody

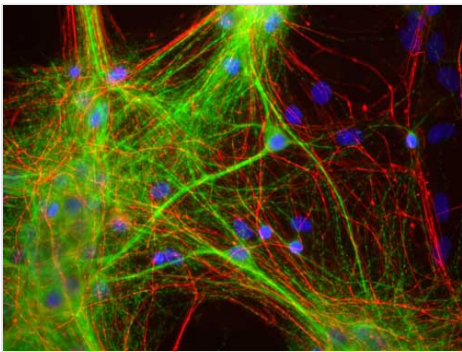
CATALOG # AAA60759	HOST Mouse	REACTIVITY Human, cow, mouse	APPLICATIONS Western Blot, Immunofluorescence
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PRODUCT SYNONYMS

MAP2; Monoclonal Antibody; MAP2 Antibody; anti-MAP2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, cow, mouse
Clonality	Monoclonal
Isotype	IgG1
Purity/Purification	Affinity purified
Form/Format	Liquid
Concentration	100ug/100ul (varies by lot)
Applicable Applications for anti-MAP2 antibody	WB (Western Blot), IF (Immunofluorescence)
Immunogen	Microtubules are 25nm diameter protein rods found in most kinds of eukaryotic cells. They are polymerized from a dimeric subunit made of one α subunit and one β tubulin subunit. Microtubules are associated with a family of proteins called microtubule associated proteins (MAPs), which includes the protein τ (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 MAP2a and MAP2b. 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 τ (a.k.a. MAP-tau or 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 of neuronal cells, their perikarya and neuronal dendrites. In contrast MAP-t (MAP-tau) is found predominantly but not exclusively in neuronal axons. The HGNC name for this protein is MAP2.
Storage Buffer	PBS, pH 7.4 with 0.02% sodium azide.
Preparation and Storage	Store at -20 degree C/1 year



Application Data



WB (Western Blot)

ADDITIONAL INFORMATION

References

1. Nagakubo D, Taira T, Kitaura H, Ikeda M, Tamai K, Iguchi-Ariga SM and Ariga H DJ-1, a novel oncogene which transforms mouse NIH3T3 cells in cooperation with ras. *Biochem. Biophys. Res. Commun.* 231, 509 -513 (1997).2. Bonifati V, Rizzu P, van Baren, M.J., Schaap O, Breedveld GJ, Krieger E, Dekker MC, Squitieri F, Ibanez P, Joosse M et al. Mutations in the DJ-1 gene associated with autosomal recessive early-onset Parkinsonism. *Science*, 299, 256 -259 (2003).3. Xu J, Zhong N, Wang H, Elias JE, Kim CY, Woldman I, Pifl C, Gygi SP, Geula C, Yankner BA. The Parkinson's disease-associated DJ-1 protein is a transcriptional co-activator that protects against neuronal apoptosis. *Hum Mol Genet.* 14 (9):1231-41 (2005)4. Yokota T, Sugawara K, Ito K, Takahashi R, Ariga H. And Mizusawa, H. Down regulation of DJ-1 enhances cell death by oxidative stress, ER stress, and proteasome inhibition. *Biochem. Biophys. Res. Commun.*, 312, 1342 -1348 (2003).5. Taira T, Saito Y, Niki T, Iguchi-Ariga SM, Takahashi K and Ariga H. DJ-1 has a role in antioxidative stress to prevent cell death. *EMBO Rep.*, 5, 213 -218 (2004).6. Bonifati V, Oostra BA. and Heutink, P. Linking DJ-1 to neurodegeneration offers novel insights for understanding the pathogenesis of Parkinson’s disease. *J.Mol.Med.*82,163-174 (2004).

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/map2-antibody-western-blot-immunofluorescence-elisa/60759>