

Product datasheet for **TA389015**

MAP2 Mouse Monoclonal Antibody [Clone ID: 4H5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4H5
Applications:	ICC, IHC, WB
Recommended Dilution:	WB: 1:1000 WB Brain: 1:1000 ICC: 1:1000
Reactivity:	Bovine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified bovine MAP2.
Specificity:	Specific for endogenous levels of the ~280 kDa MAP2 protein.
Formulation:	PBS + 50% glycerol and 5 mM Na ₃
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
Storage:	Storage at -20°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°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	280
Gene Name:	microtubule associated protein 2
Database Link:	Entrez Gene 4133 Human P11137



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Background:

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 (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).

Synonyms:

DKFZp686I2148; MAP-2; MAP2A; MAP2B; MAP2C; OTTHUMP00000163916

Note:

Protein G purified culture supernatant