Immunotag™ MAP-2 Monoclonal Antibody

Antibody Specification

Catalog No.	ITM1060
Product Description	Immunotag™ MAP-2 Monoclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	MAP-2
Clonality	Monoclonal
Storage/Stability	-20°C/1 year
Application	WB
Recommended Dilution	Western Blot: 1/1000 - 1/2000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat,Bovine,Dog
Host Species	Mouse
Immunogen	Purified recombinant human MAP-2 (C-terminus) protein fragments expressed in Ecoli
Specificity	MAP-2 Monoclonal Antibody detects endogenous levels of MAP-2 protein.
Purification	Affinity purification
Form	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
Gene Name	MAP2
Accession No.	P11137 P20357 P15146
Alternate Names	MAP2; Microtubule-associated protein 2; MAP-2

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Description	microtubule associated protein 2(MAP2) Homo sapiens This gene encodes a protein that belongs to the microtubule-associated protein family. The proteins of this family are thought to be involved in microtubule assembly, which is an essential step in neurogenesis. The products of similar genes in rat and mouse are neuron-specific cytoskeletal proteins that are enriched in dentrites, implicating a role in determining and stabilizing dentritic shape during neuron development. A number of alternatively spliced variants encoding distinct isoforms have been described. [provided by RefSeq, Jan 2010],
Protein Expression	Brain,Brain cortex,Epithelium,Pancreas,Testis,
Subcellular Localization	nucleolus,cytoplasm,microtubule,microtubule associated complex,neuron projection,
Protein Function	Additional isoforms seem to exist,function:The exact function of MAP2 is unknown but MAPs may stabilize the microtubules against depolymerization. They also seem to have a stiffening effect on microtubules.,PTM:MAP2A/c is phosphorylated. Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Contains 3 Tau/MAP repeats.,similarity:Contains 4 Tau/MAP repeats.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.