Recombinant Full Length Human MAP2 Protein, C-Flag-tagged

Cat. No. MAP2-214HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MAP2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	199.3 kDa
AA Sequence	MADERKDEAKAPHWTSAPLTEASAHSHPPEIKDQGGAGEGLVRSANGFPYREDEE GAFGEHGSQGTYSNT KENGINGELTSADRETAEEVSARIVQVVTAEAVAVLKGEQE KEAQHKDQTAALPLAAEETANLPPSPPPS PASEQTVTVEEDLLTASKMEFHDQQEL TPSTAEPSDQKEKESEKQSKPGEDLKHAALVSQPETTKTYPDK KDMQGTEEEKAP LALFGHTLVASLEDMKQKTEPSLVVPGIDLPKEPPTPKEQKDWFIEMPTEAKKDEWG L VAPISPGPLTPMREKDVFDDIPKWEGKQFDSPMPSPFQGGSFTLPLDVMKNEIVT

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	ETSPFAPAFLQPDDK KSLQQTSGPATAKDSFKIEEPHEAKPDKMAEAPPSEAMTLP KDAHIPVVEEHVMGKVLEEEKEAINQETV QQRDTFTPSGQEPILTEKETELKLEEKT TISDKEAVPKESKPPKPADEEIGIIQTSTEHTFSEQKDQEPT TDMLKQDSFPVSLEQA VTDSAMTSKTLEKAMTEPSALIEKSSIQELFEMRVDDKDKIEGVGAATSAELDM PFY EDKSGMSKYFETSALKEEATKSIEPGSDYYELSDTRESVHESIDTMSPMHKNGDKEF QTGKESQPSP PAQEAGYSTLAQSYPSDLPEEPSSPQERMFTIDPKVYGEKRDLHS KNKDDLTLSRSLGLGGRSAIEQRSM SINLPMSCLDSIALGFNFGRGHDLSPLASDILT NTSGSMDEGDDYLPATTPALEKAPCFPVESKEEEQIE KVKATGEESTQAEISCESPF LAKDFYKNGTVMAPDLPEMLDLAGTRSRLASVSADAEVARRKSVPSETVV EDSRT GLPPVTDENHVIVKTDSQLEDLGYCVFNKYTVPLPSPVQDSENLSGESGTFYEGTD DKVRRDLAT DLSLIEVKLAAAGRVKDEFSVDKEASAHISGDKSGLSKEFDQEKKAND RLDTVLEKSEEHADSKEHAKKT EEAGDEIETFGLGVTYEQALAKDLSIPTDASSEKA EKGLSSVPEIAEVEPSKKVEQGLDFAVQGQLDVKI SDFGQMASGLNIDDRRATELKL EATQDMTPSSKAPQEADAFMGVESGHMKEGTKVSETEVKQKVAKPDLV HQEAVD KEESYESSGEHESLTMESLKADEGKKETSPESSLIQDEIAVKLSVEIPCPPAVSEADL ATDERA DVQMEFIQGPKEESKETPDISITPSDVAEPLHETIVSEPAEIQSEEEEIEAQ GEYDKLLFRSDTLQITDL GVSGAREEFVETCPSEHKGVIESVVTIEDDFITVVQTTTD EGESGSHSVRFAALEQPEVERRPSPHDEEE FEVEEAAEAQAEPKDGSPEAPASPE REEVALSEYKTETYDDYKDETTIDDSIMDADSLWVDTQDDDRSIM TEQLETIPKEEK AEKEARRSSLEKHRKEKPFKTGRGRISTPERKVAKKEPSTVSRDEVRRKKAVYKKA EL AKKTEVQAHSPSRKFILKPAIKYTRPTHLSCVKRKTTAAGGESALAPSVFKQAKD KVSDGVTKSPEKRSS LPRPSSILPPRRGVSGDRDENSFSLNSSISSSARRTTRSEPI RRAGKSGTSTPTTPGSTAITPGTPPSYS SRTPGTPGTPSYPRTPHTPGTPKSAILVP SEKKVAIIRTPPKSPATPKQLRLINQPLPDLKNVKSKIGST DNIKYQPKGGQVQIVTKK IDLSHVTSKCGSLKNIGHRPGGGRVKIESVKLDFKEKAQAKVGSLDNAHHVP GGGN VKIDSQKLNFREHAKARVDHGAEIITQSPGRSSVASPRRLSNVSSSGSINLLESPQLA TLAEDVTA ALAKQGLTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.

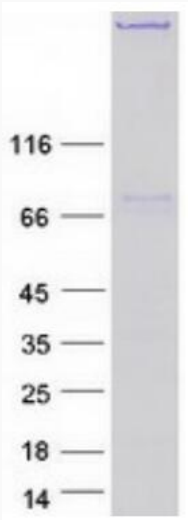
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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS
Full Length	Full L.

GENE INFORMATION

Gene Name	MAP2 microtubule associated protein 2 [Homo sapiens (human)]
Official Symbol	MAP2
Synonyms	MAP-2; MAP2A; MAP2B; MAP2C
Gene ID	4133
mRNA Refseq	NM_002374.4
Protein Refseq	NP_002365.3
MIM	157130
UniProt ID	P11137

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Coomassie blue staining of purified MAP2 protein.

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