

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 dendrites, implicating a role in determining and stabilizing dendritic 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	MADERKDEAKAPHWTSAPLTEASAHSHPPPEIKDQGGAGEGLVRSANGFPYREDEE GAFGEHGSQGTYSNT KENGINEELTSADRETAEEVSARIVQVVTAEAVAVLKGEQE KEAQHKDQTAALPLAAEETANLPPSPPPS PASEQTVTVEEDLLTASKMEFHDQQEL TPSTAEPDQKEKESEKQSKPGEDLKHAALVSQPETTKTYPDK KDMQGTREEKAP LALFGHTLVASLEDKQKTEPSLVVPGIDLPEPPTPKEQKDWFIEMPTAKKDEWG L VAPISPGPLTPMREKDVFDIPKWEKGQFDSPMPSPFQGGSFLLPLDVMKNEIVT

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ETSPFAPAFLQPDDK KSLQQTSGPATAKDSFKIEEPHEAKPDKMAEAPPSEAMTLP
KDAHIPVVEEHVMGKVLKEEKEAINQETV QQRDTFTPSGQEPILTEKETELKLEKT
TISDKEAVPKESKPPKPADEEIGIIQTSTEHTFSEQKDQEPT TDMLKQDSFPVSLEQA
VTDSAMTSKTLKAMTEPSALIEKSSIQELFEMRVDDKDKIEGVGAATSAELDM PFY
EDKSGMSKYFETSALKEEATKSIIEPGSDYYELSDTRESVHESIDTMSPMHKNGDKEF
QTGKESQPSP PAQEAGYSTLAQSYPSDLPEEPSSPQERMFTIDPKVYGEKRDLS
KNKDDLTLRSRLGLGGRSAIEQRSM SINLPMSCLD SIALGFNFGRGHDLSPLASDILT
NTSGSMDEGDDYLPATTPALEKAPCFPVESKEEEEQIE KVKATGEESTQAEISCESPF
LAKDFYKNGTVMAPDLPEMLDLAGTRSRSLASVSADAEVARRKSVPSETVV EDSRT
GLPPVTDENHVIVKTDSQLLEDLGVCVFNKYTVPLPSPVQDSENLSGESGTFYEGTD
DKVRRDLAT DLSLIEVKLAAAGRVKDEFVSVDKEASAHISGDKSGLSKEFDQEKKAND
RLDTVLEKSEEHADSKHEHAKKT EEAGDEIETFGLGVTYEQALAKDLSIPTDASSEKA
EKGLSSVPEIAEVEPSKKVEQGLDFAVQGQLDVKI SDFGQMASGLNIDRRATELKL
EATQDMTPSSKAPQEADAFMGVESGHMKEGTVKSETEVKQKVAKPDLV HQEAVD
KEESYESSGEHESLTMESLKADEGKKETSPESLIQDEIAVKLSVEIPCPPAVSEADL
ATDERA DVQMEFIQGPKEESKETPDISITPSDVAEPLHETIVSEPAEIQSEEEEIEAQ
GEYDKLLFRSDTLQITDL GVSGAREEFVETCPSEHKGVIKSVVTIEDDFITVVQTTTD
EGESGSHSVRFAALEQPEVERRPSPHDEEE FEVEEAAEAQAEPKDGSPAPASPE
REEVALSEYKTETYDDYKDETTIDDSIMDADSLWVDTQDDDRSIM TEQLETIPKEEK
AEKEARRSSLEKHKRKEKPFKTGRGRISTPERKVAKKEPSTVSRDEVRRKKAVYKKA
EL AKKTEVQAHSRSPRKFIKPAIKYTRPHTLSCVVRKTTAAGGESALAPSVFKQAKD
KVSDGVTKSPEKRSS LPRPSSILPPRRGVSGDRDENSFSLNSSISSSARRTRSEPI
RRAGKSGTSTPTTPGSTAITPGTPPSYS SRTPGTPGTPSYPRTPHTPGTPKSAILVP
SEKKVAIIRTPPKSPATPKQLRLINQPLPDLKNVKSIGST DNICYQPKGGQVQIVTKK
IDLSHVTSKCGSLKNIGHRPGGGRVKIESVKLDFKEKAQAKVGS LDNAHHVP GGGN
VKIDSQKLNFRHAKARVDHGAEIITQSPGRSSVASPRRLSNVSSSGSINLLESPQLA
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.

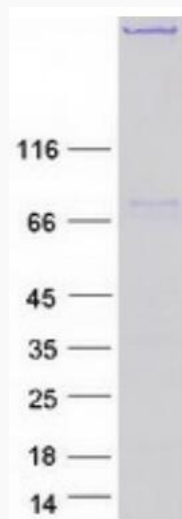
GENE INFORMATION

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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